




Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206

M. Pharm. (Pharmaceutics) 2nd Year 4th Semester' 2023-2024

SL NO	UNIV. ROLL NO.	NAME	TITLES
1	18920322001	ANUPAM BERA	FORMULATION AND CHARACTERIZATION OF ELLAGIC ACID LOADED SILVER NANOPARTICLES
2	18920322002	AKASH MONDAL	CAFFEIC ACID-g-GUAR GUM/FISH COLLAGEN BASED HYDROGELS AS WOUND DRESSINGS
3	18920322003	PRASIT ROY	Preparation, Characterization and In-Vitro Evaluation of Microspheric Delivery of Model Anti-Hypertensive Drug using Polymers from Natural Origin
4	18920322004	SUMON PAUL	Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as hemostatic dressings
5	18920322005	SUMAN KONAR	Formulation, optimization and characterization of Albendazole loaded liposomes for targeting parenchymal brain cysticercosis
6	18920322006	PANKAJ SAHA	ENHANCEMENT OF SOLUBILITY AND DISSOLUTION OF BCS CLASS IV DRUG USING COCRYSTALLIZATION-APPROACH
7	18920322007	SAYANTAN NAG	Design, development and characterization of Collagen-Guar gum based Scaffolds in tissur engineering
8	18920322008	ANUSKA CHATTERJEE	FORMULATION AND CHARACTERIZATION OF NICOTINAMIDE AND OFLOXACIN LOADED FILMS FOR WOUND HEALING
9	18920322009	ANANYA DEY	DEVELOPMENT AND EVALUATION OF MICROEMULSION GEL FORMULATION Submitted by CONTAINING BOSWELLIA SERRATA EXTRACT
10	18920322010	SANJOY KUMAR BASU	FORMULATION AND EVALUATION OF METFORMIN HYDROCHLORIDE LOADED FLOATING MICROSPHERE CONTAINING PERMEATION ENHANCERS
11	18920322011	PARTHA PRATIM BEZ	FORMULATION DEVELOPMENT STUDIES ON AN OPHTHALMIC IN-SITU GEL
12	18920322012	PIYASA CHAKRABORTY	FORMULATION AND CHARACTERIZATION OF GEL BASED COPPER NANOPARTICLES OF ELLAGIC ACID
13	18920322013	ABHISHEK GHOSH	Formulation Development Studies on Oral Wafers of A Model Antidepressant Drug
14	18920322014	TUFAN KOLEY	IMPROVEMENT OF THE PHARMACOKINETIC PROFILE OF ANTIFUNGAL AGENT USING NANO-LIPOIDAL TECHNOLOGY
15	18920322015	ARIJIT SAU	IMPROVEMENT OF THE PHARMACOKINETIC PROFILE OF CURCUMIN LOADED NANOCOCHLEATES USING NANO-LIPOIDAL TECHNOLOGY



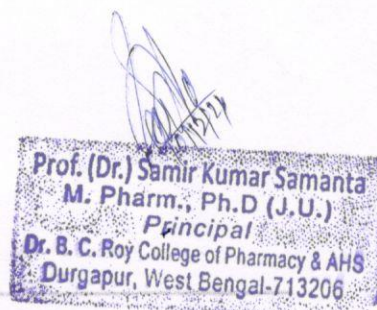
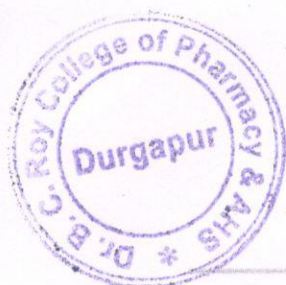

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206

M. Pharm. (Pharmacology) 2nd Year 4th Semester' 2023-2024

SL NO	UNIV. ROLL NO.	NAME	TITLE
1	18920222001	RAJIB DE	Effects of Antidiabetic Isolate of Hydro alcoholic extract of <i>Cuscuta reflexa</i> (HAECR) in HFD-STZ Rats on its Antiobesity and Secondary Diabetic Complications
2	18920222002	SUVOJIT MONDAL	EXPLORATION OF PROARRHYTHMOGENICITY OF GLIMEPIRIDE IN HYPOKALEMIA AND ARRHYTHMOGEN PROVOKED RAT MODEL
3	18920222003	SNEHA GHOSH	Studies on the Neurobehavioral Effects and Wound Healing Property of Human Placental Extract on Traumatic Brain Injury Using Animal Model of Zebra Fish
4	18920222004	TANMOY DAS	Phytochemical Investigation and Pharmacological Evaluation of Purified roots of <i>Plumbago zeylanica</i> in experimentally- Induced Arthritis in Rats
5	18920222005	SANJUKTA DAS	EXPLORING THE SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL INTERACTIONS OF OUERCETIN-COOPER NANOPARTICLE COMPLEXES FOR ENHANCED ANTIBACTERIAL AND DNA BINDING APPLICATIONS
6	18920222006	DISHA DAS	INVESTIGATIONS ON THE EFFECT OF HUMAN PLACENTAL EXTRACT IN TREATMENT-RESISTANT DEPRESSION
7	18920222007	ARINDAM SAHOO	EVALUATION OF ANTI-ULCER ACTIVITY OF BARLERIA LUPULINA LEAVES
8	18920222008	Saikat Bhattacharya	DEVELOPMENT OF NOVEL COPPER NANOPARTICLE COMPLEXES WITH CIPROFLOXACIN AND VITAMIN FOR ENHANCED ANTIBACTERIAL EFFICACY
9	18920222009	SANDIPAN SAU	STUDIES ON THE ROLE OF DRIED ETHANOLIC EXTRACT OF <i>AGARICUS BISPORUS</i> IN THE TREATMENT OP DEPRESSION IN MICE
10	18920222010	PALLABI PRADHAN	Effects of <i>Cuscuta reflexa</i> Roxb as aldose reductase inhibitor in Delaying Diabetic Cataract
11	18920222011	TAMAL PAL	An Investigation on the Therapeutic Potential of Purified Roots of <i>Plumbago zeylanica</i> in an Experimental Rat Model of Hemorrhoids
12	18920222012	AYAN MAHATA	Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Virulence Study of Microorganism on Animal Model
13	18920222013	RIKU ROY	preclinical studies of antidepressant effects of <i>hibiscus rosa sinensis</i> extract on swiss albino mice
14	18920222014	NURUL HASSAN MONDAL	Evaluation of the Improvement of Peripheral Neuropathy Using the Hydroalcoholic Extract of <i>Cucurbita maxima</i> Seeds in STZ Induced Diabetic Rats
15	18920222015	PAYEL GHOSH	Development and Pharmacological Evaluation of polyherbal formulation (tablet) on experimentally-induced hemorrhoids





M.PHARM 2ND YEAR 4TH SEMESTER, 2023-24

DR. B. C. ROY COLLEGE OF PHARMACY AND ALLIED HEALTH SCIENCES

DURGAPUR - 713206

M. PHARM. (PHARMACEUTICAL ANALYSIS) 2ND YEAR 4TH SEMESTER' 2023-2024

SL NO	UNIV. ROLL NO.	NAME	TITLES
1	18920722001	SRIJITA CHATTERJEE	SYNTHESIS AND CHARACTERIZATION OF NOVEL CINNAMIC ACID AMIDE DERIVATIVES ACTING AS POTENTIAL ANI-DIABETIC AGENTS
2	18920722002	ARUP KOLEY	SYNTHESIS AND CHARACTERIZATION OF DIFFERENT AMINO ACID DERIVATIVES TO BE EVALUATED AGAINST NON-ALCOHOLIC FATTY LIVER DISEASE
3	18920722003	SUVROJYOTI GHOSH ROY	SYNTHESIS AND CHARACTERIZATION OF CINNAMIC ACID AMIDE DERIVATIVES AS POTENTIAL ANTI-CANCER AGENT
4	18920722004	TANDRIKA ROY	SYNTHESIS OF COUMARIN ANALOGUES TO BE TESTED AS ANTIMICROBIALS
5	18920722005	SOUVIK BHANDARY	SYNTHESIS OF DIFFERENT COUMARINS TO BE EVALUATED AGAINST PROSTATE CANCER
6	18920722006	SUSMITA AFTAB	SYNTHESIS OF CIPROFLOXACIN/ CINNAMIC ACID CONJUGATES, THEIR CHARACTERIZATION, AND ANALYTICAL METHOD DEVELOPMENT BY RP-HPLC
7	18920722007	DIPANWITA BERA	FORCE DEGRADATION STUDY OF QUETIAPINE AND ITS MARKETED TABLET BY ANALYTICAL AND CHEMICAL CHARACTERIZATIONS
8	18920722008	SUSMITA MALLICK	DESIGN, SYNTHESIS, AND ANTI-MICROBIAL EVALUATION OF CERTAIN BACTERIAL PEPTIDYL T-RNA HYDROLASE.
9	18920722009	CHANCHAL MONDAL	DESIGN, SYNTHESIS AND CHARACTERIZATION OF DIFFERENT COUMARIN DERIVATIVES TO BE EVALUATED AGAINST BREAST CANCER
10	18920722011	ARIJIT PATRA	IMMOBILIZATION OF PLASTIC DEGRADING MICROORGANISM ON POLYMERIC NANOPARTICLE FOR EFFICIENT PLASTIC DEGRADATION AND BYPRODUCT ANALYSIS
11	18920722012	PYERIMA MAJI	BIOANALYTICAL PROFILING OF BRAIN BIOAMINES AND ASSOCIATED PHYTOCONSTITUENTS OF THERAPEUTIC DOSAGE OF CLITORIA TERNATEA IN PRECLINICAL MODELS OF MICE
12	18920722013	SATYAJIT ROY	SYNTHESIS OF CIPROFLOXACIN/CINNAMIC ACID CONJUGATES, THEIR CHARACTERIZATION AND ANALYTICAL METHOD DEVELOPMENT BY RP-HPLC
13	18920722014	MOLOY ROY	SYNTHESIS, CHARACTERIZATION AND ASSESSMENT OF ANTIMICROBIAL ACTIVITY OF NOVEL CHARGE TRANSFER COMPLEXES OF 3,5- DINITROSALICYLIC ACID WITH ETHYLENEDIAMINE



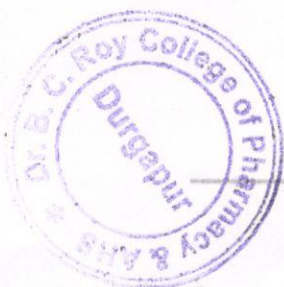
Prof. (Dr.) Sashir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206




Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur - 713206

M. Pharm. (Industrial Pharmacy) 2nd Year 4th Semester' 2023-2024

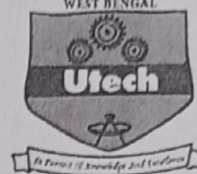
SL NO	UNIV. ROLL NO.	NAME	TITLES
1	18921822001	ADARSHA DUTTA	EXTRACTION AND CHARACTERIZATION OF NATURAL POLYMER AND ITS IMPLICATION AS RELEASE RETARDANT FOR MICROSPHERIC DRUG DELIVERY
2	18921822002	JISHA BARIK	EVALUATE THE EFFECT OF DIFFERENT CONCENTRATION OF MAGNESIUM STEARATE ON IN-PROCESS PARAMETERS AND DISSOLUTION OF PARACETAMOL 500MG TABLETS.
3	18921822003	DIBYENDU KUNDU	DEVELOPMENT AND EVALUATION OF ITRACONAZOLE LOADED MICROEMULSION GEL FORMULATION
4	18921822004	SOMRITA SAHA	SYNTHESIS AND CHARACTERIZATION OF LOW-METHOXY PECTIN/TAMARIND GUM-g-CAFFEIC ACID BASED FILMS AS FOOD PACKAGING MATERIALS
5	18921822005	NABYENDU MANDAL	DESIGN AND EVALUATION OF SLOW RELEASED GASTRORETENTIVE MICROSPHERES
6	18921822006	PIU GHOSH	PREPARATION AND EVALUATION OF FILMS FOR WOUND HEALING
7	18921822007	KRISHNENDU SARKAR	EVALUATE THE EFFECT OF GRANULES TO FINES RATIO ON IN-PROCESS PARAMETERS AND DISSOLUTION OF PARACETAMOL (500MG) TABLET
8	18921822008	JAGANNATH PANJA	FORMULATION DEVELOPMENT & CHARACTERIZATION OF NARINGIN LOADED POLYCAPROLACTONE NANOPARTICLES
9	18921822009	TANMOY CHOWDHURY	IMPROVEMENT OF BIOPHARMACEUTICAL PROPERTIES OF MODEL ANTI-HYPERTENSIVE DRUG BY SOLID DISPERSION TECHNIQUE




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

**Design, development and characterization of
carboxymethyl pullulan-g-tannic acid/gelatin based
sponges as hemostatic dressings**

Submitted by

SUMON PAUL

University Regn. No. – 221892310037

Roll No. - 18920322004

Under the guidance of

DR. HRIDAY BERA

Associate Professor, BCRCP

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

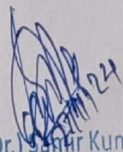
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "**Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as haemostatic dressings**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Hriday Bera**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sumon Paul

Signature

Name of Candidate: SUMON PAUL

Roll No: 18920322004

Date: 06.06.2024

Place: DURGAPUR



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Design, development and characterization of carboxymethyl pullulan-g-tannic acid/gelatin based sponges as haemostatic dressings" by Sumon Paul in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Name of Guide: Dr. Hriday Bera

Place: Durgapur

Date: 06.06.2024

Signature of the External

Examiner

Place: Durgapur

Date:

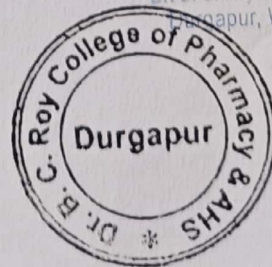
PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place: Durgapur

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A
Project Report on

**Synthesis of Ciprofloxacin/cinnamic acid conjugates,
their characterization and analytical method
development by RP-HPLC**

Submitted by
Susmita Aftab

University Regn. No.: 221892310020

Roll No.: 18920722006

Under the guidance of

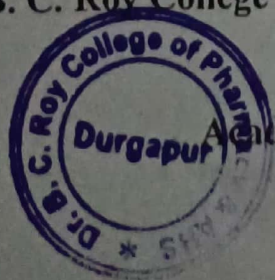
Dr. Ujjwal Sahoo
Associate professor,
BCRCP

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

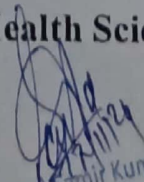
Submitted to

**Maulana Abul Kalam Azad University of
Technology West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur-713206



Academic Year: 2023-2024


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Synthesis of ciprofloxacin/ cinnamic acid conjugates, their characterization and analytical method development by RP-HPLC protocol" in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Ujjwal Sahoo.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Signature *Susmita Aftab*
Name of Candidate: SUSMITA AFTAB

Roll No: 18920722006

Date 04.06.2024

Place DURGAPUR



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Synthesis of ciprofloxacin/ cinnamic acid conjugates, their characterization and analytical method development by RP-HPLC protocol" by Susmita Aftab is an impartial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

[Handwritten Signature]
A/6/2024

Signature of Guide

Name of Guide: Dr. Ujjwal Sahoo

Place: Durgapur

Date: 04.06.2024

[Handwritten Signature]

Signature of the External Examiner

Place:

Date: 05/06/24

[Handwritten Signature]

Prof. Samir Kumar Samanta (Principal)

Place: Durgapur

Date: 04.06.2024

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



[Handwritten Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



**Design, Synthesis, and Anti-microbial Evaluation of
certain bacterial peptidyl t-RNA hydrolase
inhibitors**

Submitted by
SUSMITA MALLICK

University Reg. No. -221892310021
Roll No. -18920722008

Under the guidance of
MR. SHOBHAN BOSE
Assistant Professor, BCRCP

In partial fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Cycle: 2022-2023




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "Design, Synthesis, and Anti-microbial Evaluation of certain bacterial peptidyl t-RNA Hydrolase" in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Shobhan Bose.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

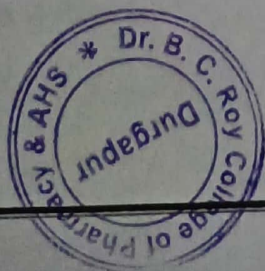
Susmita Mallick
Signature


Name of Candidate: SUSHITA MALLICK

Roll No: 18920722008

Date: 04/06/2024.

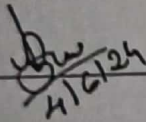
Place: Durgapur.




Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Design, Synthesis, and Anti-microbial Evaluation of certain bacterial peptidyl t-RNA Hydrolase^{Inhibitors} by Susmita Mallick in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

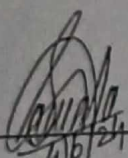

4/6/24

Signature of Guide

Name of Guide: Shobhen Bose

Date: 4/6/24

Place: Durgapur


16/6/24
PROF. (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 04/06/2024

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

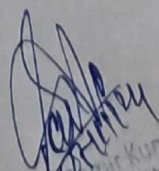
Signature

Name of External Examiner:

Date: 05/06/24

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

EXPLORATION OF PROARRHYTHMOGENICITY OF GLIMEPIRIDE IN HYPOKALEMIA AND ARRHYTHMOGEN PROVOKED RAT MODEL.

Submitted by
SUVOJIT MONDAL

University Regn. No. -221892310051 OF 2022-2023
Roll No. -18920222002

Under the guidance /Joint guidance and supervision of
Internal guide: **PROF.DR. SAMIR KUMAR SAMANTA**
PRINCIPAL of
Dr. B. C. Roy College of pharmacy and Allied Health Sciences

External guide: **PROF. SANMOY KARMAKAR**
Department of Pharmaceutical technology,
Jadavpur University, Kolkata, West Bengal

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to
**Maulana Abul Kalam Azad University of
Technology, West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206**



Prof. Dr. Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Exploration of Proarrhythmogenicity of Glimepiride in hypokalemia and arrhythmogen provoked rat model" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of **PROF.DR. SAMIR KUMAR SAMANTA & PROF. SANMOY KARMAKAR**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Suvojit Mondal

Signature

Name of Candidate: SUVOJIT MONDAL

Roll No: 18920222002

Date: 07/06/24

Place: Durgapur.

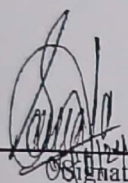
Suvojit Mondal, SRCP/2023-2024/V. Pharm/ Pharmacology/18920222002



Prof. (Dr.) Samir Samanta
M. Pharm., Ph.D (I.I.T.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Exploration of Proarrhythmogenicity of Glimperide in hypokalemia and arrhythmogen provoked rat model" by SUVOJIT MONDAL in partial fulfilment for the MASTER OF PHARMACY IN PHARMACOLOGY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



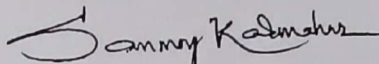
Signature of Guide

Name of Guide: **PROF. SAMIR KUMAR SAMANTA.**

Place: **Durgapur.**

Date: **07.06.21**

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

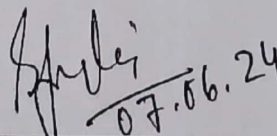


Signature of Guide

DR. SANMOY KARMAKAR
Name of the Guide: **PROF. SANMOY KARMAKAR**
PROFESSOR (Pharmaceutical Toxicology)
Dept. of Pharmaceutical Technology
SANMOY KARMAKAR
JADAVPUR UNIVERSITY, Kolkata-32

Place:

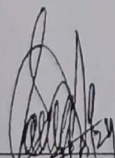
Date: **05.06.21**



Signature of the External Examiner.

Place: **Durgapur**

Date: **07.06.21**



PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Place: **Durgapur.**

Date: **07.06.21**

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
On



**SYNTHESIS, CHARACTERIZATION AND
EVALUATION OF PROTEIN FIBRILLATION
INHIBITORY ACTIVITY OF
CINNAMIC ACID AMIDE DERIVATIVES**

Submitted by

SUVROJYOTI GHOSH ROY

University Regn. No. – 221892310021

Roll No. -18920722003

Under the guidance of

Dr. Manabendra Dhua

Assistant Professor, Department of Pharmaceutical Chemistry

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

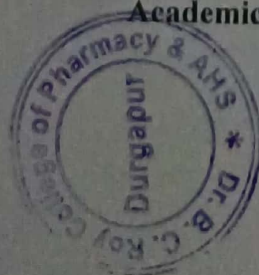
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 - 2022



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph. D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*



DECLARATION

I hereby declare that the Project entitled "Synthesis, Characterization and Evaluation of Protein Fibrillation Inhibitory activity of Cinnamic Acid Amide Derivatives" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Signature *Suvrojyoti Ghosh Roy*

Name of Candidate: SUVROJYOTI GHOSH ROY

Roll No: 18920722003

Date *04.06.2024*

Place *DURGAPUR*

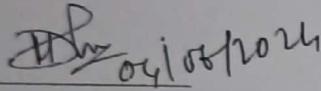


[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Synthesis, Characterization and Evaluation of Protein Fibrillation Inhibitory activity of Cinnamic Acid Amide Derivatives" by **Suvrojyoti Ghosh Roy** in partial fulfilment for the Master of Pharmacy (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

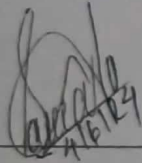


Signature of Guide

Name of Guide: Dr. Manabendra Dhua

Date:

Place:



PROF (DR.) SAMIR KR. SAMANTA

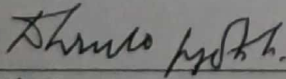
(PRINCIPAL)

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Place:

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206




Signature

Name of External Examiner:

Date: 05/06/24

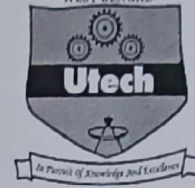
Place




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**An Investigation on the Therapeutic Potential of
Purified Roots of *Plumbago zeylanica* in an
Experimental Rat Model of Hemorrhoids**

Submitted by
TAMAL PAL
University Regn. No. -221892310052
Roll No. - 18920222011


Under the guidance of
Dr. YADU NANDAN DEY
Associate Professor, BCRC

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2023 – 2024**




Prof. (Dr.) Saikat Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "An Investigation on the Therapeutic Potential of Purified Roots of *Plumbago zeylanica* in an Experimental Rat Model of Hemorrhoids" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. YADU NANDAN DEY**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tamal Pal

Signature

Name of Candidate: TAMAL PAL

Roll No: 18920222011

Date: 06.06.2024

Place: Durgapur

D

Dr. B. C. Roy College of Pharmacy and AHS 2023-24



Prof. (Dr.) Samar Samanta
M. Pharm., Gen. D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "An Investigation on the Therapeutic Potential of Purified Roots of *Plumbago zeylanica* in an Experimental Rat Model of Hemorrhoids" by TAMAL PAL in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

Signature of Guide

Name of Guide: Dr. Yadu Nandan Dey

Date: 06-06-2024

Place: Durgapur

[Signature]

PROF. SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

[Signature]
07/6/24

Signature

Name of the External Examiner:

Date:

Place: Durgapur



Dr. B. C. Roy College of Pharmacy and AHS 2023-24

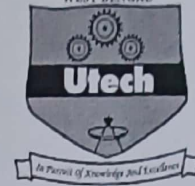


ii | Page

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on
**An Investigation on the Therapeutic Potential of
Purified Roots of *Plumbago zeylanica* in an
Experimental Rat Model of Hemorrhoids**

Submitted by
TAMAL PAL
University Regn. No. -221892310052
Roll No. - 18920222011


Under the guidance of
Dr. YADU NANDAN DEY
Associate Professor, BCRC

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2023 – 2024**




Prof. (Dr.) Saikat Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "An Investigation on the Therapeutic Potential of Purified Roots of *Plumbago zeylanica* in an Experimental Rat Model of Hemorrhoids" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **DR. YADU NANDAN DEY**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tamal Pal

Signature

Name of Candidate: TAMAL PAL

Roll No: 18920222011

Date: 06.06.2024

Place: Durgapur

D

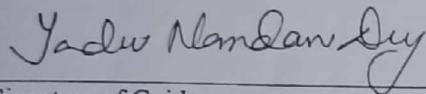
Dr. B. C. Roy College of Pharmacy and AHS 2023-24



Prof. (Dr.) Samar Samanta
M. Pharm., Gen. D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "An Investigation on the Therapeutic Potential of Purified Roots of *Plumbago zeylanica* in an Experimental Rat Model of Hemorrhoids" by TAMAL PAL in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

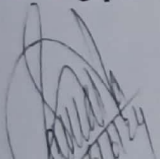


Signature of Guide

Name of Guide: Dr. Yadu Nandan Dey

Date: 06-06-2024

Place: Durgapur



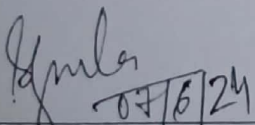
PROF. SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date:

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Signature

Name of the External Examiner:

Date:

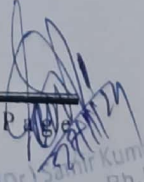
Place: Durgapur



Dr. B. C. Roy College of Pharmacy and AHS 2023-24



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Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report on

Synthesis of Coumarin Analogues to be Tested as Antimicrobials

Submitted by

Tandrika Roy

University Regn. No. -221892310023

Roll No. -18920722004

Under the guidance of

Dr. Sudip Kumar Mandal

Assistant Professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

Maulana Abul Kalam Azad University of Technology

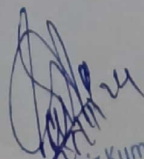
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Synthesis of Coumarin Analogues to be Tested as Antimicrobials" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sudip Kumar Mandal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tandrika Roy
Signature

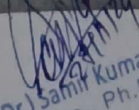
Name of Candidate: Tandrika Roy

Roll No. 18920722004

Date: 9.6.2024

Place: Durgapur

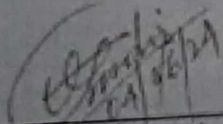



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

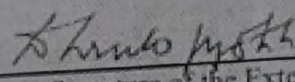


CERTIFICATE

This is to certify that the Project entitled "Synthesis of Coumarin Analogues to be Tested as Antimicrobials" by Tandrika Roy in partial fulfillment for the MASTER OF PHARMACY IN PHARMACEUTICALS ANALYSIS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide



Signature of the External

Examiner

Place: 05/06/24


Date:

Name of Guide:

DR. SUDIP KUMAR MANDAL

Place: Durgapur

Date:



PROF (DR) SAMIR KR. SAMANTA

(PRINCIPAL)


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Date:

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205

Place:





Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713205





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on
**IMPROVEMENT OF
BIOPHARMACEUTICAL PROPERTIES OF
MODEL ANTI-HYPERTENSIVE DRUG BY
SOLID DISPERSION TECHNIQUE**

Submitted by

TANMOY CHOWDHURY

University Regn. No. -221892310009

Roll No. -18921822009

Under the guidance of

Dr. Manami Dhibar

M. Pharm., Ph.D.

Assistant Professor, Pharmaceutics

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur-06

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to

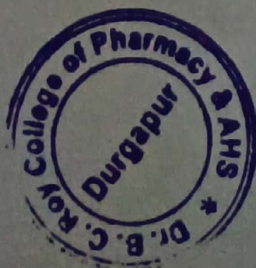
Maulana Abul Kalam Azad University of Technology

West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024



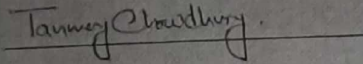
[Signature]
Prof. (Dr.) Sakir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Improvement of biopharmaceutical properties of model anti-hypertensive drug by solid dispersion technique" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manami Dhibar.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



Signature


Name of Candidate: Tanmoy Chowdhury

Roll No: 18921822009

Date:

Place: Dr. B.C. Roy College of Pharmacy & Allied Health Sciences, Durgapur




Prof. (Dr.) Sankar Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of biopharmaceutical properties of model anti-hypertensive drug by solid dispersion technique" by Tanmoy Chowdhury in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. Manami Dhibar
M. Pharm., Ph.D.
Assistant Professor
Dr. B. C. Roy of Pharmacy & AHS
Durgapur, West Bengal-713206

[Handwritten Signature]
05/06/2024

Signature of Guide

[Handwritten Signature]
6/6/2024

Signature of the External

Examiner

Name of Guide: Dr. Manami Dhibar
M. Pharm., Ph.D.
Assistant Professor
Dr. B. C. Roy College of Pharmacy &
AHS, Durgapur

Place:

Date:

Place: *Durgapur*
Date: *05/06/2024*

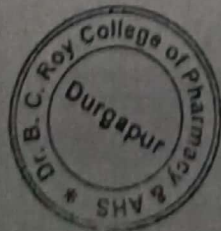
[Handwritten Signature]

PROF. SAMIR KUMAR SAMANTA Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:

Date:



ii | Page



[Handwritten Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report On
Phytochemical Investigation and Pharmacological Evaluation
of Purified roots of *Plumbago zeylanica* in experimentally-
Induced Arthritis in Rats

Submitted by

TANMOY DAS

University Regn. No. -221892310053 of 2022-2023

Roll No. -18920222004

Under the guidance of

Dr. YADU NANDAN DEY
Associate Professor, BCRCP

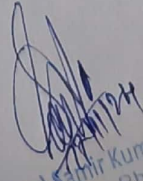
**In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology**

**Submitted to:
Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023-2024



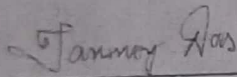

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Phytochemical investigation and pharmacological evaluation of purified roots of *Plumbago zeylanica* in experimentally-induced arthritis in rats" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. YADU NANDAN DEY.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

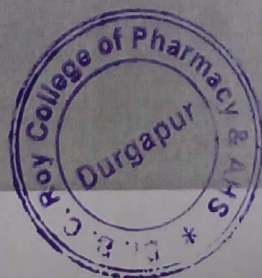

Signature

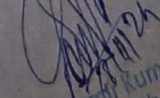
Name of Candidate: Tanmoy Das

Roll No: 18920222004

Date: 5-06-24

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

2024/06/14 17:47



CERTIFICATE

This is to certify that the Project entitled "Phytochemical investigation and pharmacological evaluation of purified roots of *Plumbago zeylanica* in experimentally-arthritis in rats" by Tanmoy das in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Yadu Nandan Dey

Signature of Guide

Name of Guide: Dr. Yadu Nandan Dey

Place: Durgapur
Date: 06-06-2024

S. Paul
07.06.24

Signature of the External Examiner

Place:
Date:

[Signature]

PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Place:
Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

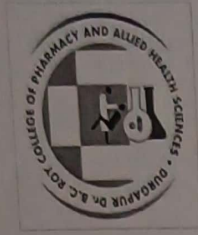


Dr. B. C. Roy College of Pharmacy and A.H.S 2023-2024.



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

2024_06_14 17:47



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project report on

**IMPROVEMENT OF THE PHARMACOKINETIC PROFILE OF
ANTIFUNGAL AGENT USING NANO-LIPOIDAL TECHNOLOGY**

Submitted by
Tufan Koley

University Regn. No. - 221892310038 (2022-23)
Roll No. - 18920322014

Under the guidance of
Mr. SAGAR SENGUPTA
Associate Professor, BCRC


Submitted to
In fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

**Maulana Abul Kalam Azad University of
Technology West Bengal**

**Dr. B.C. Roy College of Pharmacy and Allied Health
Sciences Durgapur 713206**

Academic Year: 2023-2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Improvement of the pharmacokinetic profile of antifungal agent using nano-lipoidal technology". in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. SAGAR SENGUPTA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Tufan Koley

Signature

Name of Candidate: -Tufan Koley

Roll No: - 18920322014

Date:- 05/06/2024

Place: - Durgapur.



Sagar Sengupta
Prof (Dr.) Sagar Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of the pharmacokinetic profile of antifungal agent using nano-lipoidal technology" by Tufan Koley in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.

(Handwritten Signature)
5/6/2024

Signature of Guide Name of

Guide:- Mr. SAGAR SENGUPTA
Place:- Durgapur.
Date:- 5/6/2024

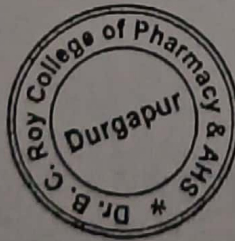
Associate Professor
Dr. B. C. Roy College of Pharmacy and AHS
Durgapur-713206

(Handwritten Signature)

PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Place:
Date:

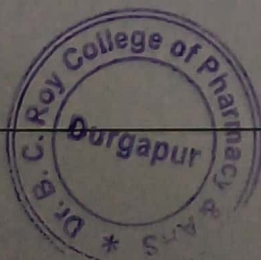
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



(Handwritten Signature)

Signature of the External Examiner

Place:-
Date:-



II

(Handwritten Signature)
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
on

**INVESTIGATIONS ON THE EFFECT OF HUMAN
PLACENTAL EXTRACT IN TREATMENT-RESISTANT
DEPRESSION**

Submitted by

DISHA DAS

University Regn. No. 221892310041 of 2022

Roll No. 18920222006

Under the Guidance of
Dr. Shyamshree S. S. Manna
Professor of Pharmacology

In partial fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

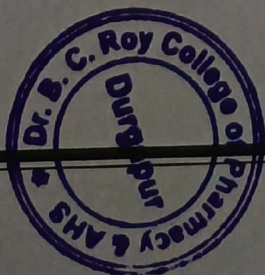
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

AY:2023-2024



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal*

*Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, West Bengal-713206*



DECLARATION

I hereby declare that the Project entitled "Investigations on the Effect of Human Placental Extract in Treatment-Resistant Depression" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Shyamshree S. S. Manna.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Disha Das

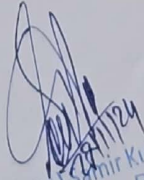
Disha Das

Roll No: 18920222006

Place: Durgapur

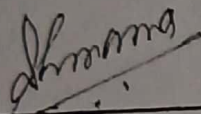
Date: 06/06/2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the project entitled "Investigations on the Effect of Human Placental Extract in Treatment-Resistant Depression" by Ms Disha Das in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.

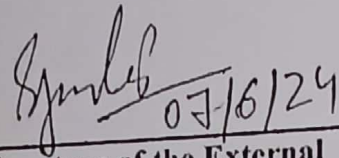


Signature of Guide

Dr. Shyamshree S. S. Manna

Place: Durgapur

Date: 06/06/24

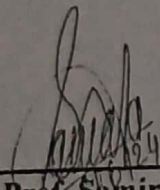


Signature of the External

Examiner

Place: Durgapur

Date:



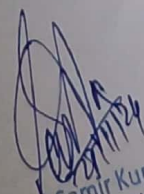
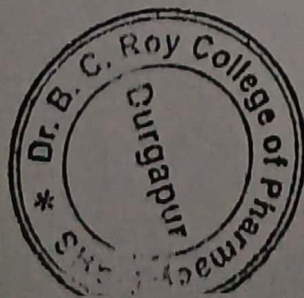
Prof. (Dr.) Samir Kumar Samanta

(Principal)

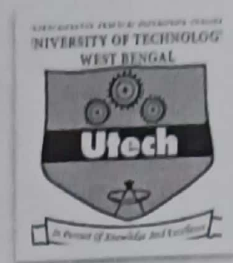
Place: Durgapur

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
SYNOPSIS ON
“FORMULATION DEVELOPMENT &
CHARACTERIZATION OF NARINGIN LOADED
POLYCAPROLACTONE NANOPARTICLES”

Submitted by

JAGANNATH PANJA

University Regn. No. 221892310003 of 2022-23

Roll No. 18921822008

Under the guidance of

Mrs. Rituparna Chaki Ghosh

(Assistant Professor, Department of Pharmaceutics)

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

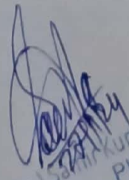
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "FORMULATION DEVELOPMENT & CHARACTERIZATION OF NARINGIN LOADED POLYCAPROLACTONE NANOPARTICLES" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL, is an authentic record of bona fide work carried out by me under the guidance of Mrs. Rituparna Chaki Ghosh.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Jagannath Panja.

Signature

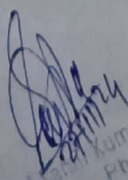
JAGANNATH PANJA.

Name of Candidate: Roll No: 18921822008

Date: 05/06/2024.

Place: DURGAPUR.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "FORMULATION DEVELOPMENT & CHARACTERIZATION OF NARINGIN LOADED POLYCAPROLACTONE NANOPARTICLES" by JAGANNATH PANJA in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Rituparna
5/6/24
Signature of Guide

S. Saha
6/6/2024
Signature of the External
Examiner

Name of Guide:
Mrs. Rituparna Chaki Ghosh.
Place: DURGAPUR.
Date: 05/06/24

Place:
Date:

[Signature]
PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:
Date:



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**TO EVALUATE THE EFFECT OF GRANULES TO FINES
RATIO ON IN-PROCESS PARAMETERS AND
DISSOLUTION OF PARACETAMOL (500MG) TABLETS.**

Submitted by
Krishnendu Sarkar

University Regn. No. – 221892310005

Roll No. –18921822007

Under the guidance of
MD. WAIZUL HAQUE ANSARI
Associate Professor

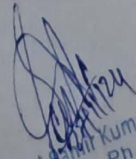
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (U.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHG
Durgapur, West Bengal-713206



DECLARATION

I hereby declared that the Project entitled "TO EVALUATE THE EFFECT OF GRANULES TO FINES RATIO ON IN-PROCESS PARAMETERS AND DISSOLUTION OF PARACETAMOL (500MG) TABLETS" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Md Waizul Haque Ansari, Associate professor, Dr.B.C.Roy College of Pharmacy & AHS.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Krishnendu Sarkar

Signature

Krishnendu Sarkar

Roll No: 18921822007

Date: 31/05/24

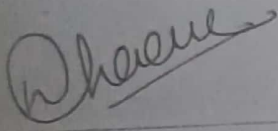
Place: Durgapur



M. Pharm. Pr. D (J.U.)
Prof. (Dr.) M. Kumar Samanta
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206

CERTIFICATE

This is to certify that the Project entitled "TO EVALUATE THE EFFECT OF GRANULES TO FINES RATIO ON IN-PROCESS PARAMETERS AND DISSOLUTION OF PARACETAMOL (500MG) TABLETS " by Krishnendu sarkar in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

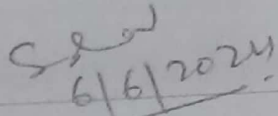


Signature of Guide

Name of Guide: Md. Waizul Haque

Place: Durgapur

Date: 31.05.24

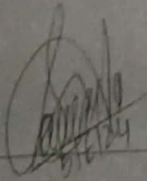

6/6/2024

Signature of the External

Examiner

Place:

Date:

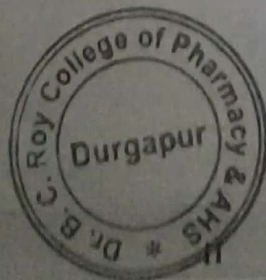


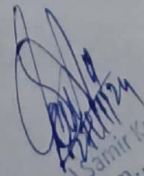
PROF. (DR.) SAMIR KR SAMANTA
(PRINCIPAL)

Place:

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report on

**SYNTHESIS, CHARACTERIZATION AND
ASSESSMENT OF ANTIMICROBIAL ACTIVITY OF
NOVEL CHARGE TRANSFER COMPLEXES OF 3,5-
DINITROSALICYLIC ACID WITH
ETHYLENEDIAMINE**

*Submitted by
MOLOY ROY*

University Regn. No. – 221892310015 OF 2022-23

Roll No. -18920722014

Under the guidance of

DR. MANABENDRA DHUA

Assistant professor, Department of Pharmaceutical Chemistry & Analysis
Dr. B.C. Roy College of Pharmacy & AHS, Durgapur

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 – 2024



*Prof. (Dr.) Sumit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*



DECLARATION

I am hereby declared that the Project entitled "synthesis, characterization & assessment of antimicrobial activity of novel charge transfer complexes of 3,5-dinitrosalicylic acid with ethylenediamine" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Manabendra Dhua.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Moloy Roy

Signature


Name of Candidate: Moloy Roy

Roll No: 18920722014

Date: 04-Jun-2024

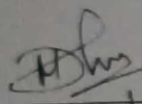
Place: Durgapur - 06




Prof. (Dr.) Sumir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "synthesis, characterization & assessment of antimicrobial activity of novel charge transfer complexes of 3,5-dinitrosalicylic acid with ethylenediamine" by Moloj Roy in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



04/06/2024

Signature of Guide

Name of Guide: Dr. Manabendra Dhua

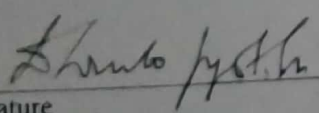
Date: 04 - Jun - 2024

Place: Durgapur - 06


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL) Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date: 04 - Jun - 2024

Place: Durgapur - 06



Signature

Name of External Examiner:

Date: 05/06/24

Place: Durgapur - 06




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

DESIGN AND EVALUATION OF SLOW RELEASE GASTRORETENTIVE MICROSPHERES

Submitted by

NABYENDU MANDAL

University Regn. No. -221892310006

Roll No. -18921822005

Under the guidance of

Dr. Subhabrata Ray

M. Pharm, Ph. D.

In partial fulfilment of the Requirement for the Degree of

Master of Industrial Pharmacy


Maulana Abul Kalam Azad University of Technology

West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206 Academic Year: 2023 - 2024



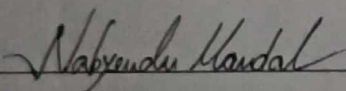

Prof. (Dr.) Sanku Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "design and evaluation of slow release gastro retentive microspheres" in partial fulfilment of the requirement for the award of Master of industrial Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Subhabrata Ray.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.



Signature


Name of the Candidate: Nabyendu Mandal

Roll No: 18921822005

Date: 3/6/21

Place: Durgapur




Prof. (Dr.) Subhabrata Ray
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

I

CERTIFICATE

This is to certify that the Project entitled “**design and evaluation of slow release gastroretentive microspheres**” by Nabyendu Mandal in partial fulfilment for the MASTER OF INDUSTRIAL PHARMACY under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Signature of Guide

Name of Guide: Dr. Subhabrata Ray

Place: 3/6/21

Date: Durgapur

Signature of External Examiner

Signature of the External Examiner

Examiner

Place:

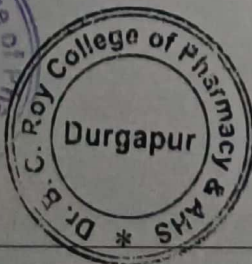
Date:

Signature of Prof. (Dr.) Samir Kumar Samanta

PROF. SAMIR KUMAR SAMANTA (PRINCIPAL) Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Place: Durgapur Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date: 1/6/21



Signature of Prof. (Dr.) Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report On

**Evaluation of the Improvement of Peripheral
Neuropathy Using the Hydroalcoholic Extract of
Cucurbita maxima Seeds in STZ Induced Diabetic Rats**

Submitted by

Nurul Hassan Mondal

University Reg No.- 221892310042 of 2022-2023

Roll No.- 18920222014

Under The Guidance of

Mr. Saroj Singhmura

Associate Professor

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

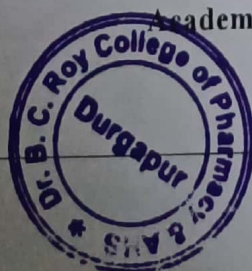
Submitted to

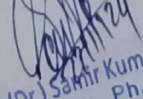
**Maulana Abul Kalam Azad University of Technology,
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024



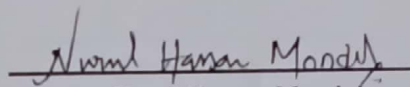

Prof. (Dr.) Sakir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Declaration

I hereby declare that the Project entitled "Evaluation of the Improvement of Peripheral Neuropathy Using the Hydroalcoholic Extract of Cucurbita maxima Seeds in STZ Induced Diabetic Rats" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr.Saroj Singhmura (Assistant Professor).


The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Date: 6/06/24
Place: Durgapur, WB


Name: Nurul Hassan Mondal
RollNo: 18920222014

Dr. B. C. Roy College of Pharmacy & A.P.S. (2022-2024)




Prof. (Dr.) Saroj Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy, AHS
Durgapur, West Bengal-713200 Page i



Certificates

This is to certify that the Project entitled "Evaluation of the Improvement of Peripheral Neuropathy Using the Hydroalcoholic Extract of Cucurbita maxima Seeds in STZ Induced Diabetic Rats" by Nurul Hassan Mondal in partial fulfilment for the Master of Pharmacy (Pharmacology) under Maulana Abul Kalam Azad University of Technology, West Bengal is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination Maulana Abul Kalam Azad University of Technology, West Bengal for assessment.

Signature of guide

Name: Mr.Saroj Singhmura
(Assistant Professor, BCRCP)

Date: 6/6/24

Place: Durgapur, WB

Signature of the
External Examiner

Date:

Place: Durgapur, WB

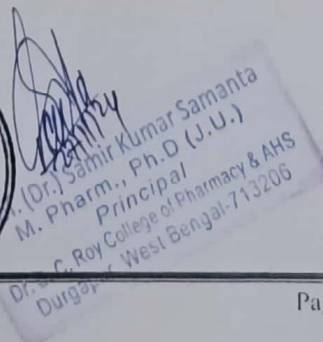
Signature of principal

Name: Prof. Samir Kumar Samanta
(Principal)

Date: 6/6/24

Place: Durgapur, WB

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A Thesis

On

**Effects of *Cuscuta reflexa Roxb* as aldose reductase
inhibitor in Delaying Diabetic Cataract**

Submitted by

Pallabi Pradhan

University Reg. No. –221892310043

Roll No. –18920222010

Under the guidance of

MR. SAROJ SINGHMURA

Assistant Professor, Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

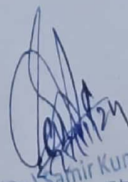
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur**

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
1



DECLARATION

I hereby declare that the Project "Effects of *Cuscuta reflexa Roxb* as aldose reductase inhibitor in Delaying Diabetic Cataract" in partial fulfillment of requirement for award of Masters of Pharmacy in Pharmacology, submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Saroj Singhmura (Assistant Professor, Department of Pharmacology). The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

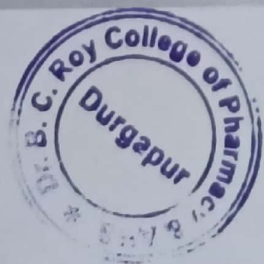
Pallabi Pradhan

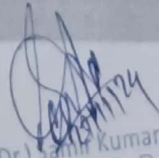
Signature of the candidate

Roll no: 18920222010

Date: 06.06.24

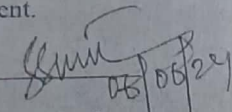
Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
2
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

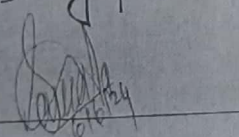
This is to certify that the Project entitled "Effects of *Cuscuta reflexa* Roxb as aldose reductase inhibitor in Delaying Diabetic Cataract" by Pallabi Pradhan in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide

Name of Guide: Mr. Saroj Singhmura

Date: 06.06.24

Place: Durgapur


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

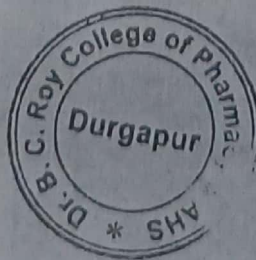
Place:

Signature

Name of External Examiner:

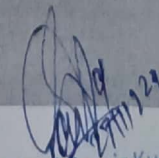
Date:-

Place:-



3




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

3





A
Project Report on

**ENHANCEMENT OF SOLUBILITY AND DISSOLUTION
OF BCS CLASS IV DRUG USING COCRYSTALLIZATION
APPROACH**

Submitted by

PANKAJ SAHA

University Regn. No. – 221892310030 (2022-23)

Roll No. - 18920322006

Under the guidance of

Prof. (Dr.) Santanu Chakraborty

M. Pharm., Ph.D., FIC

Divisional In-Charge, Division of Pharmaceutics

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 - 2024



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "**Enhancement of Solubility and Dissolution of BCS Class IV Drug using Cocrystallization approach**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **Prof. (Dr.) Santanu Chakraborty**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Pankaj Saha

Signature

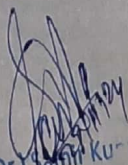
Name of Candidate: Pankaj Saha

Roll No: 189203220066

Date: 06/06/2024

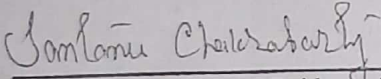
Place: Dr. B.C. Roy College of Pharmacy and Allied Health Sciences, Durgapur

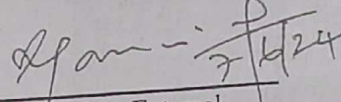



Prof. (Dr.) Santanu Chakraborty
M. Pharm., F
Prin
Dr. B. C. Roy Coll
Durgapur, W
Pharmacy & AHS
13206

CERTIFICATE

This is to certify that the Project entitled "Enhancement of Solubility and Dissolution of BCS Class IV Drug using Cocrystallization approach" by Pankaj Saha in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

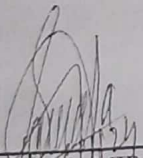

Signature of Guide 06/06/24


Signature of the External Examiner

Name of Guide:
Prof. (Dr.) Santanu Chakraborty
M.Pharm., Ph.D., FIC
Divisional In-Charge, Pharmaceutics
Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph.D., FIC

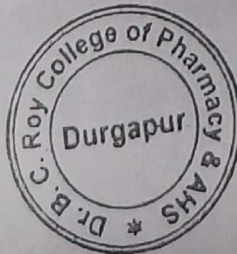
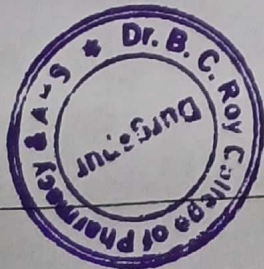
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Date:

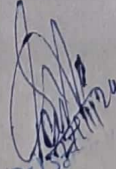
Place: Durgapur DIC, Pharmaceutics Division
Date: Dr. B. C. Roy College of Pharmacy and AHS
Bidhannagar, Durgapur-713206


PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place: Durgapur
Date:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on
**FORMULATION DEVELOPMENT STUDIES
ON AN
OPHTHALMIC *IN-SITU* GEL**

Submitted by

PARTHA PRATIM BEZ

University Regn. No. – 221892310031 of 2022-23

Roll No. - 18920322011

Under the guidance of

Prof. Subhabrata Ray

Professor-In-Charge (PG Studies & Research)

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

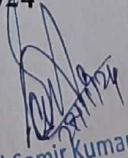
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I am hereby declared that the Project entitled "**Formulation Development Studies On an Ophthalmic *In-Situ* Gel**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Prof. Subhabrata Ray**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

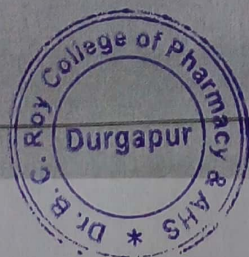
Partha Pratim Bez
Signature

Name of Candidate: PARTHA PRATIM BEZ

Roll No: 18920322011

Date: 05/06/2024

Place: Durgapur



A handwritten signature in blue ink, appearing to read "Samir Kumar Samanta".

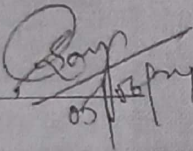
Samir Kumar Samanta
Ph.D (J.U.)
Pharmacy & AHS
206

Du. 5/



CERTIFICATE

This is to certify that the Project entitled "Formulation Development Studies On an Ophthalmic In-Situ Gel" by Partha Pratim Bez in partial fulfilment for the MASTER OF PHARMACY IN PHARMACEUTICS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAMAZAD UNIVERSITY OF TECHNOLOGY for assessment.



05/06/24

Signature of Guide

Name of Guide: PROF. SUBHABRATA RAY

Date: 05/06/2024 *Professor*
Dr. B. C. Roy College of Pharmacy and AHS
Durgapur-713206

Place: DURGAPUR


05/06/24

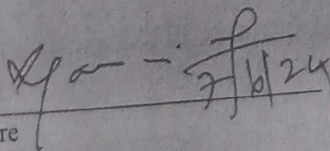
PROF. SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 05/06/2024

Place: DURGAPUR

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

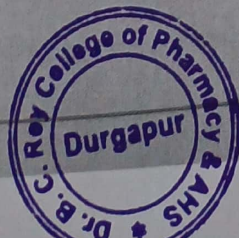
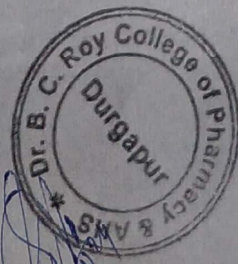

07/06/24

Signature

Name of External Examiner:

Date: 07/06/2024

Place: Durgapur



II

Dr. B. C. Roy
Durgapur, ...





A

Project Report On

**Development and Pharmacological Evaluation of polyherbal
formulation (tablet) on experimentally-induced hemorrhoids**

Submitted by

Payel Ghosh

University Reg No.- 221892310044 of 2022-2023

Roll No.- 18920222015

Under The Guidance of

Dr. Yadu Nandan Dey

Associate Professor

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

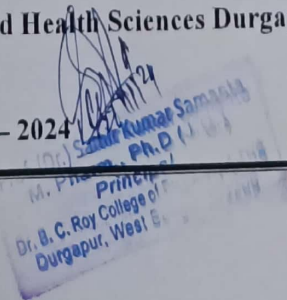
Submitted to

**Maulana Abul Kalam Azad University of Technology, West
Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences Durgapur

713206

Academic Year: 2023 – 2024



DECLARATION

I hereby declare that the Project entitled “**Development and Pharmacological Evaluation of polyherbal formulation (tablet) on experimentally-induced hemorrhoids**” in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Yadu Nandan Dey** (Associate Professor).

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Date:
Place: Durgapur, WB

Payel Ghosh

Name: **Payel Ghosh**
Roll No: 18920222015



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Development and Pharmacological Evaluation of polyherbal formulation (tablet) on experimentally-induced hemorrhoids" by PAVEL GHOSH in partial fulfilment for the Master of Pharmacy (Pharmacology) under Maulana Abul Kalam Azad University of Technology, West Bengal is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination Maulana Abul Kalam Azad University of Technology, West Bengal for assessment.

Yadu Nandan Dey

Signature of guide

Name: **Dr. Yadu Nandan Dey**

(Associate Professor, BCRCP)

Date: 06-06-2024

Place: Durgapur, WB

[Signature]
08/06/24

signature of the
External Examiner

Date:

Place: Durgapur, WB

[Signature]

Signature of principal

Name: **Prof. Samir Kumar Samanta** Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)

Samanta

(Principal)

Date:

Place: Durgapur, WB

Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

PREPARATION AND EVALUATION OF FILMS FOR WOUND HEALING

Submitted by
PIU GHOSH

University Regn. No. - 221892310007 (2022-23)
Roll No. -18921822006

Under the guidance of
Mr. Saptarshi Dutta

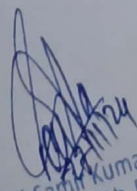
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Preparation and evaluation of film for wound healing" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Saptarshi Dutta.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Picu Ghosh

Signature

Name of Candidate: *Picu Ghosh*

Roll No: *18921822006*

Date: *6/06/2024*

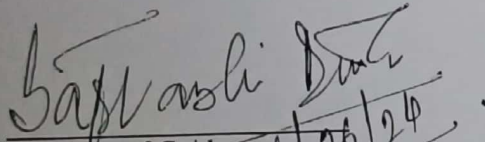
Place: DURGAPUR



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
A. P. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

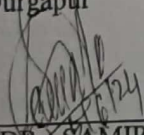
This is to certify that the Project entitled "Preparation and evaluation of film for wound healing" by Piu Ghosh in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.


Signature of Guide 6/06/24

Name of Guide: Mr. Saptarshi Dutta

Date:

Place: Durgapur

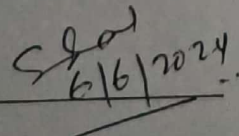

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Date:

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

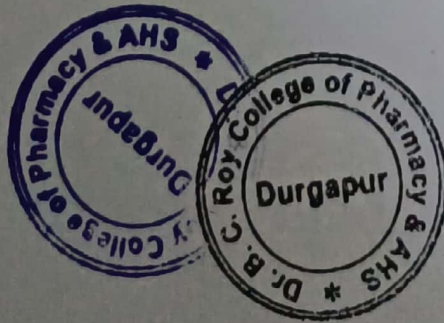
Place: Durgapur

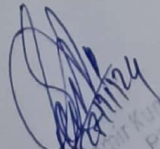

Signature 6/6/2024

Name of External Examiner:

Date:

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**“FORMULATION AND CHARACTERIZATION OF
GEL BASED COPPER NANOPARTICLES OF
ELLAGIC ACID”**

Submitted by

PIYASA CHAKRABORTY

University Regn. No. -221892310032 of 2022-23

Roll No. -18920322012

Under the guidance of

Mrs. Rituparna Chaki Ghosh

(Assistant Professor, Department of Pharmaceutics)

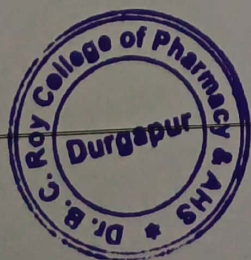
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

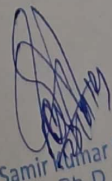
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024



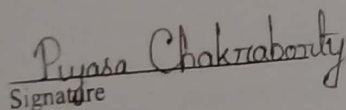

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "**FORMULATION AND CHARACTERIZATION OF GEL BASED COPPER NANOPARTICLES OF ELLAGIC ACID**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Mrs. Rituparna Chaki Ghosh**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

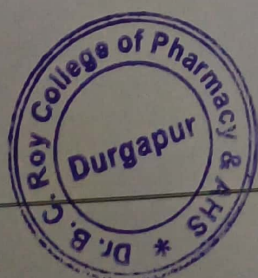

Signature

Name of Candidate: PIYASA CHAKRABORTY

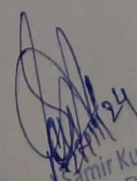
Roll No: 18920322012

Date: 06/06/24

Place: Durgapur



I


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "FORMULATION AND CHARACTERIZATION OF GEL BASED COPPER NANOPARTICLES OF ELLAGIC ACID" by PIYASA CHAKRABORTY in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Rituparna Chaki Ghosh
Signature of Guide

Name of Guide: Mrs. Rituparna Chaki Ghosh

Date:

Place: Durgapur

Samir Kumar Samanta
PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

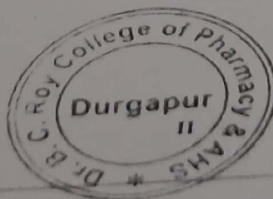
Place: Durgapur

[Signature]
Signature

Name of External Examiner:

Date:

Place: Durgapur



II

Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report

on

BIOANALYTICAL PROFILING OF BRAIN BIOAMINES AND ASSOCIATED
PHYTOCONSTITUTES OF THE RAPID THERAPEUTIC DOSES OF CLITORIA TERNATEA IN
PRE-CLINIC MODELS OF MICE

Submitted by

PYFORIMA MAJI

University Regn. No. -221892310016

Roll No. -18920722012

Under the guidance of

Dr. Souvik Basak

Professor

Dr BC Roy College of Pharmacy and Allied Health Sciences, Durgapur

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis


Submitted to

Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2022 - 2024




Prof. (Dr.) Sandip Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Bioanalytical profiling of brainbioamines and associated phytoconstituents of therapeutic doses of *Clitoria ternatea* in preclinical models on mice" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr Souvik Basak.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Pycorima Maji

Signature

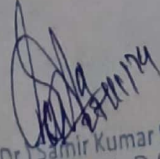
Name of Candidate: Pycorima Maji

Roll No: 18920722012

Date:

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Bioanalytical profiling of brain bioamines and associated phytoconstituents of therapeutic doses of *Clitoria ternatea* in preclinical models on mice" by Pyeorima Maji in partial fulfilment for the MASTER OF PHARMACY (Pharmaceutical Analysis) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Souvik Basak
3/6/24

Signature of Guide

Name of Guide: Dr Souvik Basak

Place: Durgapur

Date:

[Handwritten Signature]

Signature of the External Examiner

Place: Durgapur

Date: 05/06/24

[Handwritten Signature]

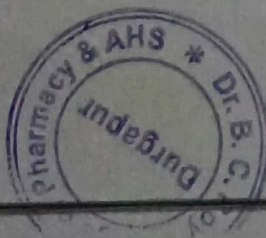
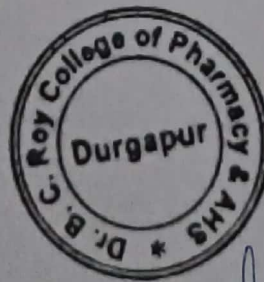
PROF. SAMIR KUMAR SAMANTA

(PRINCIPAL)

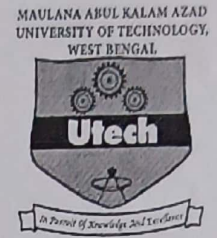
Place: Durgapur

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208



[Handwritten Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208



A Thesis
on

**Effects of Antidiabetic Isolate of Hydro alcoholic extract of
Cuscuta reflexa (HAECR) in HFD-STZ Rats on its Antiobesity
and Secondary Diabetic Complications**

Submitted by

Rajib De

*University Regn. No. -221892310045
Roll No. -18920222001*

Under the guidance of

MR. SAROJ SINGHMURA

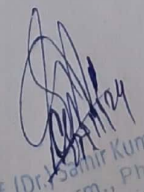
Assistant Professor, Department of Pharmacology
In partial fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206
Academic Year: 2023 - 2024**




Prof. (Dr.) Sothir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project "*Effects of Antidiabetic Isolate of Hydro alcoholic extract of Cuscuta reflexa (HAECR) in HFD-STZ Rats on its Antiobesity and Secondary Diabetic Complications*" in partial fulfillment of requirement for award of the Degree of Masters of Pharmacy in Pharmacology submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Saroj Singhmura (Assistant Professor, Department of Pharmacology).

Rajib ale.

Signature of the candidate

Roll no: 18920222001

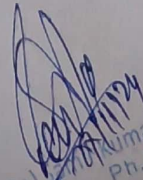
Date: 06.06.24

Place: Durgapur

Dr. B. C. Roy College of Pharmacy & AHS

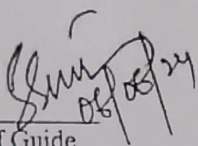
Durgapur-713206, West Bengal, India.




Prof. (Dr.) Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Effects of Antidiabetic Isolate of Hydro alcoholic extract of *Cuscuta reflexa* (HAECR) in HFD-STZ Rats on its Antiobesity and Secondary Diabetic Complications" by Rajib De in partial fulfillment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

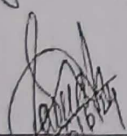


Signature of Guide

Name of Guide: Mr. Saroj Singhmura

Date: 06-06-24

Place: Durgapur

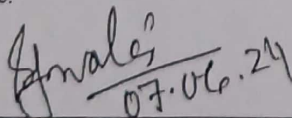


PROF. (DR.) SAMIR KUMAR SAMANTA
(PRINCIPAL)

Date:

Place:


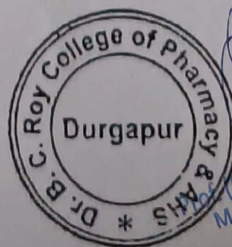
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



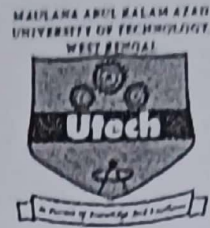
Signature

Name of External Examiner:

Date:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

Preclinical studies of antidepressant effects of *hibiscus rosa sinensis* extract on swiss albino mice

Submitted by

RIKU ROY

University Reg. No. -221892310046 OF 2022-23

Roll No. -18920222013

Under the guidance of

DR. ABHIK SI

Associate professor

Department of pharmacology

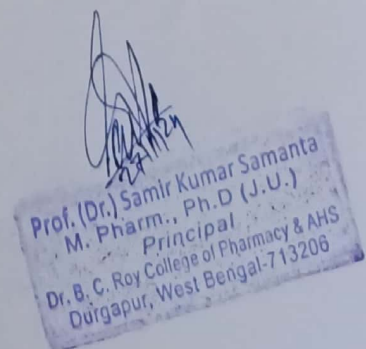
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024



DECLARATION

I hereby declare that the Project entitled "preclinical studies of antidepressant effects of *hibiscus rosa sinensis* extract on swiss albino mice" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of DR. Abhik si.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Riku Roy
Signature

Name of Candidate: Riku roy

Roll No:18920222013

Date: 06.06.2024

Place: BCRCP, DURGAPUR

BCRCP, DURGAPUR



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Page ii

CERTIFICATE

This is to certify that the Project entitled "preclinical studies of antidepressant effects of *hibiscus rosa sinensis* extract on swiss albino mice" by Riku roy in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Signature of the External

Examiner

Name of Guide: Dr. Abhik Si.

Place: BCRCP, Durgapur.

Date: 06. 06. 2024.

Place:

Date:

PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Place:

Date:

BCRCP DURGAPUR



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Page ii



A

Project Report on



**DEVELOPMENT OF NOVEL COPPER
NANOPARTICLE COMPLEXES WITH
CIPROFLOXACIN AND VITAMIN C FOR
ENHANCED ANTIBACTERIAL EFFICACY**

Submitted by

SAIKAT BHATTACHARYA

University Regn. No. - 221892310047 of 2022-23

Roll No. - 18920222008

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

Assistant Professor

Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to

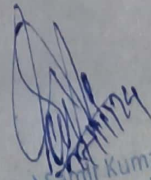
**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 - 2024




Prof. (Dr.) Sahil Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Development of Novel Copper Nanoparticle Complexes with Ciprofloxacin and Vitamin C for Enhanced Antibacterial Efficacy" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Sagarika Deepthy Tallapragada**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

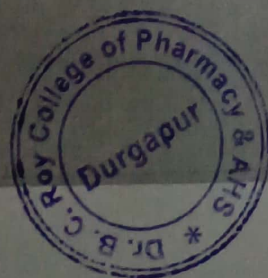
Saikat Bhattacharya.
Signature

Name of Candidate: Saikat Bhattacharya

Roll No: 18920222008

Date: 06/06/2024

Place: Durgapur.



[Signature]
Prof. Dr. Sagarika Deepthy Samanta
M. Pharmacy, Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Development of Novel Copper Nanoparticle Complexes with Ciprofloxacin and Vitamin C for Enhanced Antibacterial Efficacy" by Saikat Bhattacharya in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. T. Sagarika Deepthy
Signature of Guide 06/06/24

Dr. Sagarika Deepthy Tallapragada
M. Pharm., Ph.D
Assistant Professor
Department of Pharmacology
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur-713206

Name of Guide: Dr. Sagarika Deepthy Tallapragada

Date: 06/06/24

Place: Durgapur.

Prof. (Dr.) Samir Kr. Samanta
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

Place:

Samir
Signature 07/06/24

Name of External Examiner:

Date:

Place:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

**STUDIES ON THE ROLE OF DRIED ETHANOLIC
EXTRACT OF *AGARICUS BISPORUS* IN THE
TREATMENT OF DEPRESSION IN MICE**

Submitted by

SANDIPAN SAU

University Regn. No. – 221892310048 OF 2022-23

Roll No. - 18920222009

Under the guidance of

DR. ABHIK SI

Associate Professor

Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

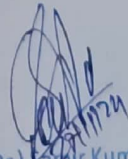
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)

Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "Studies on the role of dried ethanolic extract of *Agaricus bisporus* in the treatment of depression in mice" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **DR. ABHIK SI.**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sandipan Sau

Signature

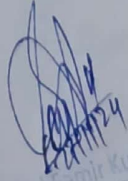
Name of Candidate: **Sandipan Sau**

Roll No: **18920222009**

Date: **06/06/2024**

Place: **Durgapur**




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Studies on the role of dried ethanolic extract of *Agaricus bisporus* in the treatment of depression in mice" by Sandipan Sau in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Abhik

Signature of Guide

Name of Guide: Dr. Abhik S.

Date: 06.06.2024

Place: BCRCP, Durgapur.

Samir
PROF (DR) SAMIR KR. SAMANTA
(PRINCIPAL)

Date: 06/06/2024

Place: Durgapur

Samir
07/06/24

Signature

Name of External Examiner:

Date: 07/06/2024

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**FORMULATION AND EVALUATION OF
METFORMIN HYDROCHLORIDE LOADED
FLOATING MICROSPHERE CONTAINING
PERMEATION ENHANCERS**

Submitted by

SANJOY KUMAR BASU

University Regn. No. - 221892310034 of 2022-23

Roll No. - 18920322010

Under the guidance of

Dr. Falguni Patra

Associate Professor, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

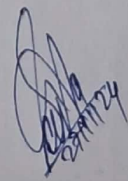
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr. Falguni Patra)
M. Pharm.
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
- Samanta
(1.)

DECLARATION

I hereby declare that the Project entitled "FORMULATION AND EVALUATION OF METFORMIN HYDROCHLORIDE LOADED FLOATING MICROSPHERE CONTAINING PERMEATION ENHANCERS" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of DR. FALGUNI PATRA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sanjoy Kumar Basu
Signature

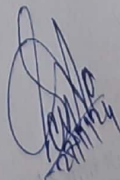
Name of Candidate: Sanjoy Kumar Basu

Roll No: 18920322010

Date: 06.06.24

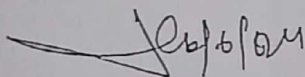
Place: Durgapur




Prof. (Dr.) Falguni Patra
M. Pharm., Ph.D. (Pharm.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

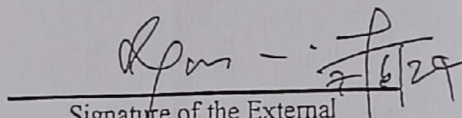
This is to certify that the Project entitled "FORMULATION AND EVALUATION OF METFORMIN HYDROCHLORIDE LOADED FLOATING MICROSPHERE CONTAINING PERMEATION ENHANCERS" by Sanjoy Kumar Basu in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: FALGUNI PATRA

Place: Durgapur
Date: 06/06/2024



Signature of the External

Examiner

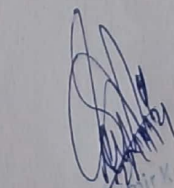
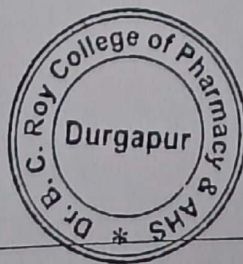
Place:
Date:



PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:
Date:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on



**EXPLORING THE SYNTHESIS,
CHARACTERIZATION AND BIOLOGICAL
INTERACTIONS OF QUERCETIN-COPPER
NANOPARTICLE COMPLEXES FOR ENHANCED
ANTIBACTERIAL AND DNA BINDING
APPLICATIONS**

Submitted by

SANJUKTA DAS

University Regn. No. – 221892310049 of 2022-23

Roll No. – 18920222005

Under the guidance of

Dr. Sagarika Deepthy Tallapragada

Assistant Professor

Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 - 2024



*Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206*



DECLARATION

I am hereby declared that the Project entitled "Exploring the Synthesis, Characterization and Biological Interactions of Quercetin-Copper Nanoparticle Complexes for Enhanced Antibacterial and DNA Binding Applications" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bonafide work carried out by me under the guidance of **Dr. Sagarika Deepthy Tallapragada**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sanjukta Das
Signature

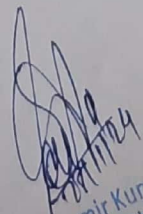
Name of Candidate: Sanjukta Das

Roll No: 18920222005

Date: 06.06.2024

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Exploring the Synthesis, Characterization and Biological Interactions of Quercetin-Copper Nanoparticle Complexes for Enhanced Antibacterial and DNA Binding Applications" by Sanjukta Das in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Dr. T. Sagarika Deepthy
06/06/24

Signature of Guide

Name of Guide: Dr. Sagarika Deepthy Tallapragada

Date: 06.06.2024

Place: Durgapur

[Signature]
24

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

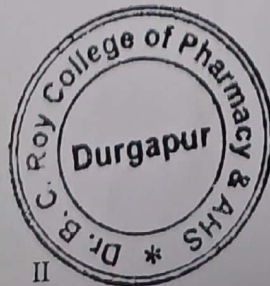
Samir
07/6/24

Signature

Name of External Examiner:

Date:

Place:



[Signature]
24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Dr. Sagarika Deepthy Tallapragada
M. Pharm., Ph.D
Assistant Professor
Department of Pharmacology
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur-713206



A

Project Report on
Synthesis of ciprofloxacin/cinnamic acid conjugates, their characterization and
analytical method development by RP-HPLC

Submitted by

Satyajit Roy

University Regn. No.: 221892310017

Roll No.: 18920722013

Under the guidance of

Dr. Ujjwal Sahoo

Associate professor, BCRCP

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmaceutical Analysis

Submitted to

Maulana Abul Kalam Azad University of Technology West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences Durgapur
Academic Year: 2023-2024



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & Allied Health Sciences
Durgapur, West Bengal



DECLARATION

I hereby declare that the Project entitled "Synthesis of ciprofloxacin/ cinnamic acid conjugates, their characterization and analytical method development by RP-HPLC protocol" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Ujjwal Sahoo. The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Satyajit Roy

Signature Name of Candidate:
Roll No: 18920722013
Date: 4/10/24
Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled: "Synthesis of caprofenacin succinic acid analogues, their characterization and analytical method development by RP-HPLC protocol" by Satyajit Roy in partial fulfillment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award any where before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

4/6/2024

Signature of Guide
Name of Guide: Dr. Ujjwal Sahoo
Place: Durgapur
Date: 4/6/24

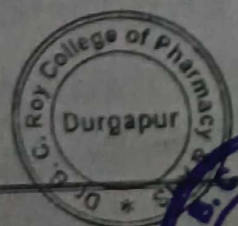
[Handwritten Signature]

Signature of the External Examiner
Place:
Date: 05/06/24

Prof. Samir Kumar Samanta (Principal)

Place: Durgapur
Date: 04/06/24

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



[Handwritten Signature]

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



^

Project Report on

**DESIGN, DEVELOPMENT AND
CHARACTERIZATION OF COLLAGEN-GUAR
GUM BASED SCAFFOLDS IN TISSUE
ENGINEERING**

Submitted by

SAYANTAN NAG

University Regn. No. – 221892310035 of 2022-23

Roll No. -18920322007

Under the guidance of

Prof. (Dr.) Santanu Chakraborty

M.Pharm., PhD., FIC.

Professor, Divisional In-Charge, Division of Pharmaceutics
Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

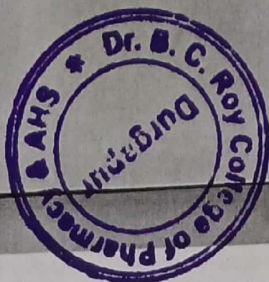
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024



Sayan Nag
Prof. (Dr.) Santanu Chakraborty
M. Pharm., PhD. (J.J.)
Principal
Dr. B. C. Roy College of Pharmacy
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "Design, Development and Characterization of Collagen-Guar gum Based Scaffolds in Tissue Engineering" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Santanu Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Sayantan Nag

Signature


Name of Candidate: Sayantan Nag

Roll No: 18920322007

Date: 06 / 06 / 2024

Place: Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur.




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal
Page no: I

CERTIFICATE

This is to certify that the Project entitled "Design, Development and Characterization of Collagen-Guar gum Based Scaffolds in Tissue Engineering" by Sayantan Nag in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Santanu Chakraborty 06/06/24
Signature of Guide
Name of Guide: Prof. (Dr.) Santanu Chakraborty
M.Pharm., Ph.D., FIC
Professor, Divisional In-Charge, BCRCP

Prof. (Dr.) Santanu Chakraborty
M. Pharm., Ph.D., FIC
DIC, Pharmaceutics Division
Dr. B. C. Roy College of Pharmacy and AHS
Bidhannagar, Durgapur-713206

M.Pharm., Ph.D., FIC.
Professor, Divisional In-Charge, BCRCP

Date:

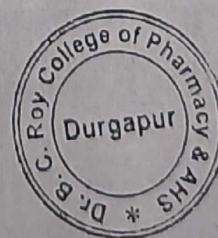
Place: Durgapur

[Signature]
PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

Place: Durgapur



[Signature] 7/6/24
Signature of External Examiner

Name of External Examiner:

Date:

Place: Durgapur

Page no: II



[Signature] 7/6/24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report
on



**Studies on the Neurobehavioral Effects and Wound
Healing Property of Human Placental Extract on
Traumatic Brain Injury Using Animal Model of Zebra Fish**

Submitted by

SNEHA GHOSH

University Regn. No. – 221892310050

Roll No. - 18920222003

Under the guidance of

Dr. Shyamshree S S Manna

Professor of Pharmacology

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

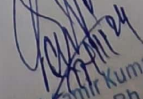
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**



Academic Year: 2023 – 2024


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Declaration

I hereby declare that the project entitled "Studies on the Neurobehavioral Effects and Wound Healing Property of Human Placenta Extract on Traumatic Brain Injury Using Animal Model of Zebra Fish" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Shyamshree S S Manna.

The matter embodied in this project has not been submitted for the award of any other degree or diploma to any University / Institution.

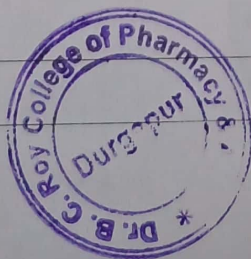
Sneha Ghosh

SNEHA GHOSH

Roll No: 18920222003

Date: 06 • 06 •

Place: Durgapur

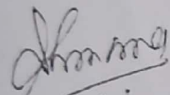


[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Certificate

This is to certify that the Project entitled "Studies on the Neurobehavioral Effects and Wound Healing Property of Human Placenta Extract on Traumatic Brain Injury Using Animal Model of Zebra Fish" by Sneha Ghosh in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

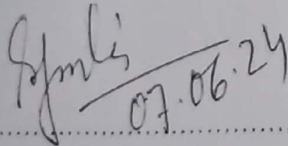


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GUIDE

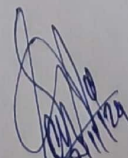
Dr. Shyamshree S S Manna
Place: Durgapur
Date: 06/06/24



.....
Principal
PROF. (DR.) SAMIR KUMAR SAMANTA
Dr. B. C. Roy College of Pharmacy & AHS
Place: Durgapur, West Bengal-713206
Date: 06.06.2024



.....
External Examiner
Place: Durgapur
Date: 07.06.24



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**SYNTHESIS AND CHARACTERIZATION OF
LOW-METHOXY PECTIN/TAMARIND GUM-g-
CAFFEIC ACID BASED FILMS AS FOOD
PACKAGING MATERIALS**

Submitted by

SOMRITA SAHA

University Regn. No. 221892310008(2022-23)

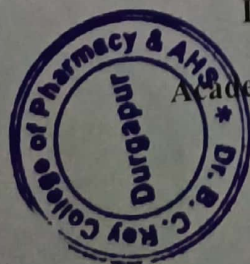
Roll No. -18921822004

Under the guidance of
Dr. Hriday Bera,
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**



Academic Year: 2023 – 2024

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "synthesis and characterization of tamarind gum-g-caffeic acid/low-methoxy pectin based films as food packaging materials" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Hriday Bera.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Somrita Saha

Signature

Name of Candidate: SOMRITA SAHA

Roll No: 18921822004

Date: 5/6/24

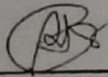
Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

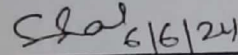
This is to certify that the Project entitled "synthesis and characterization of tamarind gum-g-caffeic acid/low-methoxy pectin based films as food packaging materials" by SOMRITA SAHA in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: DR. HRIDAY BERA

Place: DURGAPUR
Date: 5/6/24



Signature of the External

Examiner

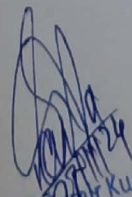
Place:
Date:



PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:
Date:



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on



Synthesis of Different Coumarins to be Evaluated against Prostate Cancer

Submitted by

SOUVIK BHANDARY

University Regn. No. -221892310018

Roll No. -18920722005

Under the guidance of

Dr. Sudip Kumar Mandal

Assistant Professor

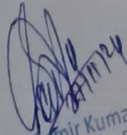
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Synthesis of Different Coumarins to be Evaluated against Prostate Cancer" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Sudip Kumar Mandal.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution

Souvik Bhandary
Signature


Name of Candidate: Souvik Bhandary

Roll No: 18920722005

Date: 04.06.2024

Place: Durgapur



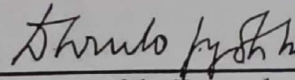

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis of Different Coumarins to be Evaluated against Prostate Cancer" by Souvik Bhandary in partial fulfilment for the MASTER OF PHARMACY IN PHARMACEUTICAL ANALYSIS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide



Signature of the External

Examiner

Name of Guide:

DR. SUDIP KUMAR MANDAL

Place: Durgapur

Date:

Place:

Date: 05/06/24



PROF (DR.) SAMIR KR. SAMANTA


(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Date:

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on

**SYNTHESIS AND CHARACTERIZATION OF
NOVEL CINNAMIC ACID AMIDE DERIVATIVES
ACTING AS POTENTIAL ANI-DIABETIC AGENTS**

Submitted by

SRIJITA CHATTERJEE

University Regn. No. – 221892310019 of 2022-23

Roll No. - 18920722001

Under the guidance of

Dr. Parthasarathi Panda

Assistant Professor, Department of Pharmaceutical Chemistry

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Sahir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "Synthesis and Characterization of Novel Cinnamic Acid Amide Derivatives acting As Potential Anti-Diabetic Agents" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Parthasarathi Panda.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Srijita Chatterjee

Signature


Name of Candidate: Srijita Chatterjee

Roll No: 18920722001

Date: 04/06/24

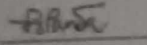
Place: Durgapur




Prof. (Dr.) Sahir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis and Characterization of Novel Cinnamic Acid Amide Derivatives acting As Potential Anti-Diabetic Agents" by Srijita Chatterjee in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

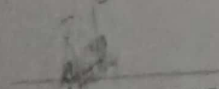


Signature of Guide

Name of Guide: Dr. Parthasarathi Panda

Date: 09/05/2024

Place: Durgapur

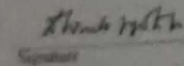


PROF. DR. SAMIR KUMAR SAMANTA

(PRINCIPAL)

Date: Prof. Dr. Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Place: Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



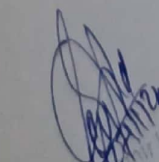
Signature

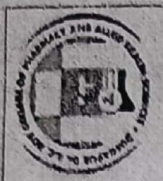
Name of External Examiner:

Date: 05/06/24

Place:




Prof. Dr. Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A Project Report on

**Formulation, optimization and characterization of
Albendazole loaded liposomes for targeting
parenchymal brain cysticercosis**

Submitted by

SUMAN KONAR

University Regn. No.: 221892310036

Roll No.: 18920322005

Under the guidance of

MR. INDRAJIT CHAND

Assistant professor, BCRCP

In partial fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to

**Maulana Abul Kalam Azad University of
Technology, West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur-713206

Academic Year: 2023-2024



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm, F.D (J.U.)

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur-713206



DECLARATION

I hereby declare that the Project entitled "Formulation, optimization and characterization of Albendazole loaded liposomes for targeting of parenchymal brain cysticercosis" in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Indrajit Chand.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University/Institution.

Suman Konar

Signature

Name of Candidate: SUMAN KONAR

Roll No: 1890322005

Date: 06.06.2024

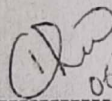
Place: DURGAPUR



I
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Formulation, optimization and characterization of Albendazole loaded liposomes for targeting of parenchymal brain cysticercosis" by SUMAN KONAR in partial fulfillment for the MASTER OF PHARMACY (Pharmaceutics) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

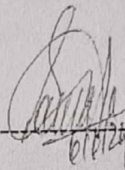

06/06/24

Signature of Guide

Name of Guide: Mr. Indrajit Chand

Place: Durgapur

Date: 06.06.24


6/6/24

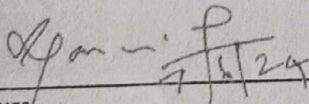
Prof (Dr.) Samir Kumar Samanta

(Principal)

Place:

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



7/6/24

Signature

Name of External Examiner:

Date:




II Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**Formulation Development Studies on Oral Wafers
of A Model Antidepressant Drug**

Submitted by

Abhishek Ghosh

University Reg. No. – 221892310024 of 2022-23

Roll No. -18920322013

Under the guidance of

Prof. Subhabrata Ray

Professor In-Charge (PG Studies & Research)

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

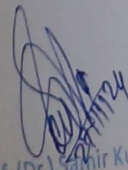
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Declaration

I hereby declare that the Synopsis entitled "**Formulation Development Studies on Oral Wafers of A Model Antidepressant Drug**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Prof. Subhabrata Ray**

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Abhishek Ghosh

Signature

Name of Candidate: Abhishek Ghosh

Roll No: 18920322013

Date: 05/06/2024

Place: Durgapur



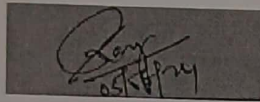
[Signature]
Prof. (Dr.) Sampr Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Page | 1



CERTIFICATE

This is to certify that the Synopsis entitled "Formulation Development Studies on Oral Wafers of A Model Antidepressant Drug" by **Abhishek Ghosh** in partial fulfilment for the MASTER OF PHARMACY IN PHARMACEUTICS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



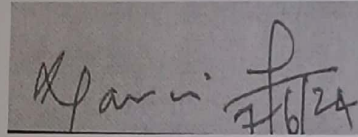
Signature of Guide

Name of Guide:

PROF. SUBHABRATA RAY

Place: Durgapur

Date: 05.06.24
Professor
Dr. B. C. Roy College of Pharmacy and AHS
Durgapur-713206

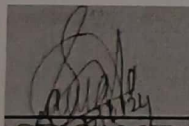


Signature of the External

Examiner

Place: Durgapur

Date: 05/06/2024



PROF. SAMIR KUMAR SAMANTA

(PRINCIPAL)

Place: Durgapur

Date: 05/06/2024

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Page | II



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project Report on
**EXTRACTION AND CHARACTERIZATION OF
NATURAL POLYMER AND ITS IMPLICATION AS
RELEASE RETARDANT FOR MICROSPHERIC
DRUG DELIVERY**

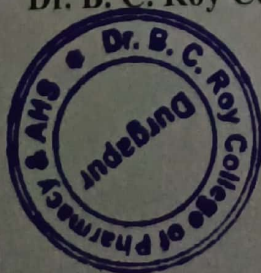
Submitted by
ADARSHA DUTTA

University Regn. No. -221892310001 of 2022-23
Roll No. - 18921822001

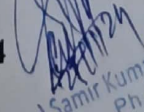
Under the guidance of
PROF. (DR.) SANTANU CHAKRABORTY
M Pharm., Ph.D. FIC
Professor and Divisional In-charge of Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**
**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**



Academic Year: 2023 - 2024


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Extraction and characterization of natural polymer and its implication as release retardant for microspheric drug delivery" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Santanu Chakraborty.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Adarsha Dutta

Signature


Name of Candidate: Adarsha Dutta

Roll No.: 18921822001

Date: 05/06/29

Place: Dr. B. C. Roy College of Pharmacy And Allied Health Sciences (Durgapur)




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

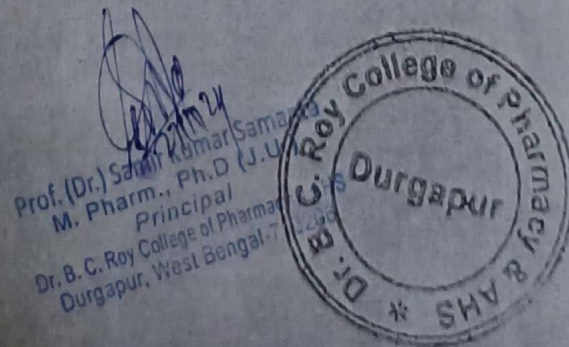
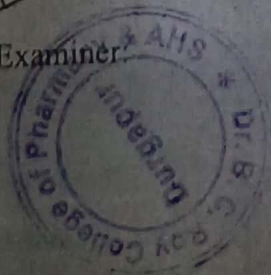
This is to certify that the Project entitled "Extraction and characterization of natural polymer and its implication as release retardant for microspheric drug delivery" by Adarsha Dutta in partial fulfilment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Santanu Chakraborty 05/06/24
Signature of Guide

Name of Guide: Prof. (Dr.) Santanu Chakraborty
Prof. (Dr.) Santanu Chakraborty
Date: M. Pharm., Ph.D., FIC
Place: DIC, Pharmaceutics Division
Dr. B. C. Roy College of Pharmacy and AHS
Bidhannagar, Durgapur-713206

Prof. (Dr.) Samir Kr. Samanta
(PRINCIPAL)
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Date: Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Place:

S. Samanta 6/6/24
Signature
Name of External Examiner
Date:
Place:





MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A

Project Report on

CAFFEIC ACID-g-GUAR GUM/FISH COLLAGEN BASED HYDROGELS AS WOUND DRESSINGS

Submitted by

AKASH MONDAL

University Regn. No. 221892310025 (2022-23)

Roll No. -18920322002

Under the guidance of

Dr. Hriday Bera

Associate Professor

In partial fulfillment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

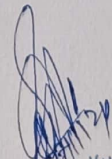
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "CAFFEIC ACID-g-GUAR GUM/FISH COLLAGEN BASED HYDROGELS AS WOUND DRESSINGS" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Hriday Bera.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Akash Mondal

Signature

Name of Candidate: AKASH MONDAL

Roll No: 18920322002

Date: 06/06/2024

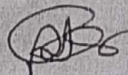
Place: DURGAPUR



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 726105

CERTIFICATE

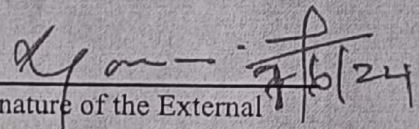
This is to certify that the Project entitled "CAFFEIC ACID-g-GUAR GUM/FISH COLLAGEN BASED HYDROGELS AS WOUND DRESSINGS" by AKASH MONDAL in partial fulfillment for the MASTER OF PHARMACY (PHARMACEUTICS/PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



Signature of Guide

Name of Guide: DR. HRIDAY
BERA

Place: DURGAPUR
Date: 06/06/2024



Signature of the External

Examiner

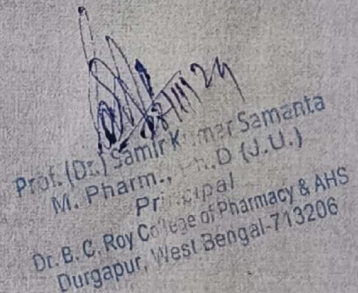
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Date:



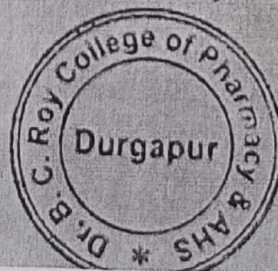
PROF. SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Place: DURGAPUR
Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206





A

Project Report on

**DEVELOPMENT AND EVALUATION OF
MICROEMULSION GEL FORMULATION
CONTAINING BOSWELLIA SERRATA EXTRACT**

Submitted by

ANANYA DEY

University Regn. No. – 221892310026 OF 2022-23

Roll No. -18920322009

Under the guidance of

Dr. Falguni Patra

Associate Professor, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

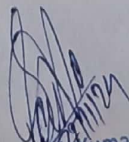
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Ph
Durgapur, West Bengal 713206

DECLARATION

I am hereby declared that the Project entitled "**Development and Evaluation of microemulsion gel formulation containing *Boswellia serrata* extract**" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Falguni Patra**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ananya Dey

Signature

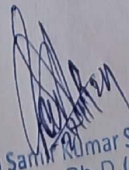
Name of Candidate: Ananya Dey

Roll No: 18920322009

Date: 06/06/2024

Place: Dr. B. C. Roy College of Pharmacy and Allied Health Sciences, Durgapur.

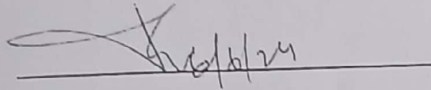



Prof. (Dr.) Samir Kumar Samanta
Pharm., Ph.D (J.U.)
Principal
College of Pharmacy & AHS
Durgapur, West Bengal-713206

Page no: I

CERTIFICATE

This is to certify that the Project entitled "Development and evaluation of microemulsion gel formulation containing *Boswellia serrata* extract" by Ananya Dey in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his/her thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.



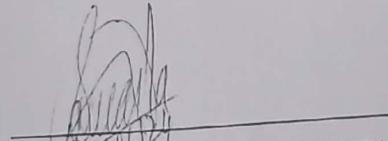
Signature of Guide

Name of Guide: Dr. Falguni Patra

Associate Professor, Pharmaceutics

Date: 06/06/2024

Place: Durgapur

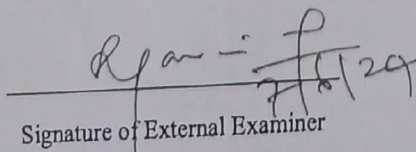


PROF (DR.) SAMIR KR. SAMANTA Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
(PRINCIPAL) Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

Place: Durgapur

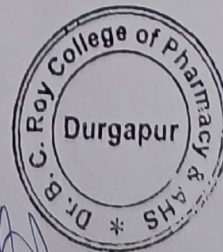


Signature of External Examiner

Name of External Examiner:

Date:

Place: Durgapur



Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206
Page no: II



A
Project Report on

**“FORMULATION AND CHARACTERIZATION
OF ELLAGIC ACID LOADED SILVER
NANOPARTICLES”**

Submitted by
ANUPAM BERA

University Regn. No. -221892310027 of 2022-23

Roll No. -18920322001

Under the guidance of

Mrs. Rituparna Chaki Ghosh

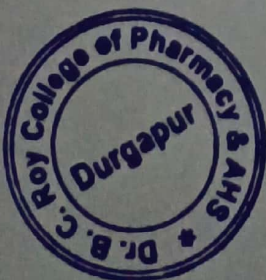
(Assistant Professor, Department of Pharmaceutics)

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024



Prof. (Dr.) Samir Kumar Samanta
Prof. Pharmaceutics (M. Pharm.)
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur - 713206

DECLARATION

I hereby declare that the Project entitled "FORMULATION AND CHARACTERIZATION OF ELLAGIC ACID LOADED SILVER NANOPARTICLES" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mrs. Rituparna Chaki Ghosh. The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anupam Bera.

Signature


Name of Candidate: ANUPAM BERA

Roll No : 18920322001

Date : 06/06/24

Place : Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "FORMULATION AND CHARACTERIZATION OF ELLAGIC ACID LOADED SILVER NANOPARTICLES" by ANUPAM BERA in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Rituparna
6/6/24

Signature of Guide

Name of Guide: Mrs. Rituparna Chaki Ghosh
Place: Durgapur
Date: 06/06/24

[Signature]
2/6/24

Signature of the External

Examiner

Name of External Examiner:

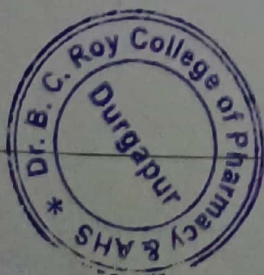
Place:
Date:

[Signature]

Prof. (Dr.) SAMIR KUMAR
SAMANTA
(PRINCIPAL)

Place:
Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on
**FORMULATION AND CHARACTERIZATION OF
NICOTINAMIDE AND OFLOXACIN LOADED
FILMS FOR WOUND HEALING**

Submitted by

ANUSKA CHATTERJEE

UNIVERSITY REGISTRATION NO. -221892310028 (2022-2023)

ROLL NO. - 18920322008

Under the guidance of

Mr. Saptarshi Dutta

Assistant Professor, Pharmaceutics

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmaceutics


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Formulation and Characterization of Nicotinamide and Ofloxacin loaded films for wound healing" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. Saptarshi Dutta.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Anuska Chatterjee
Signature

Name of Candidate: ANUSKA CHATTERJEE

Roll No: 18920322008

Date: 06/06/2024

Place: DURGAPUR



S. S. S.
24/11/24
nta
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206 Page 1

CERTIFICATE

This is to certify that the Project entitled "Formulation and Characterization of Nicotinamide and Ofloxacin loaded films for wound healing" by Anuska Chatterjee in partial fulfillment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Saptarshi Dutta
6/6/24

Signature of Guide

Name of Guide: Mr. Saptarshi Dutta

[Signature]
25/6/24

Signature of the External Examiner

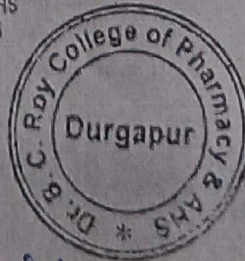
Place:
Date:

Place: DURGAPUR
Date: 06/06/2024.

[Signature]
Prof. (Dr.) Samir Kumar Samanta
(PRINCIPAL)
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:
Date:



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report On
**Immobilization of Plastic Degrading Microorganism on Polymeric
Nanoparticle for Efficient Plastic Degradation and Byproduct
Analysis**

Submitted by

Arijit Patra

University Reg No.- 221892310010

Roll No.- 18920722011

Under The Guidance of
Mr. Sanjoy Konar

Assistant Professor

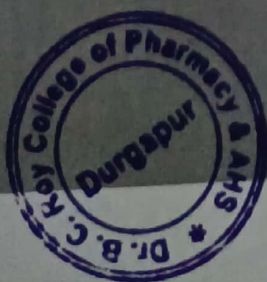
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Byproduct Analysis" in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Mr. Sanjoy Konar.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arijit Patra

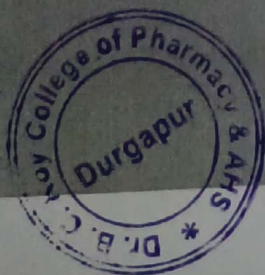
Signature

Name of Candidate: Arijit Patra

Roll No: 18920722011

Date: 04/06/2024

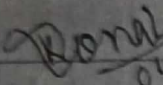
Place: Durgapur



[Signature]
Prof. (Dr.) Sanjay Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713208

CERTIFICATE

This is to certify that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Byproduct Analysis" by Arijit Patra in partial fulfillment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

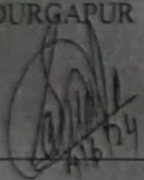

04/06
2024

Signature of Guide

Name of Guide: SANJOY KONAR

Date:

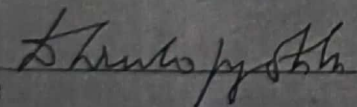
Place: DURGAPUR


PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Date:

Place: DURGAPUR

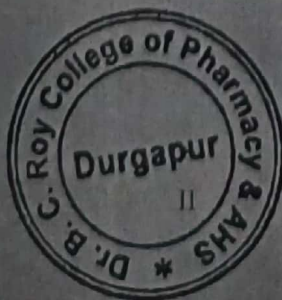


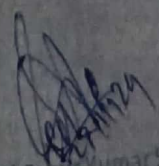
Signature

Name of External Examiner:

Date: 05/06/24

Place:




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project report on

**IMPROVEMENT OF THE PHARMACOKINETIC PROFILE OF
CURCUMIN LOADED NANOCOCHLEATES USING NANO-
LIPOIDAL TECHNOLOGY**

*Submitted by
Arijit Sau*

*University Regn. No. – 221892310029(2022-23)
Roll No. – 18920322015*

Under the guidance of
Mr. SAGAR SENGUPTA
Associate Professor, BCRCP

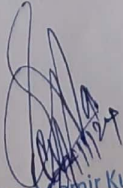
Submitted to
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

**Maulana Abul Kalam Azad University of
Technology West Bengal**

**Dr. B.C. Roy College of Pharmacy and Allied Health
Sciences Durgapur 713206**

Academic Year: 2023-2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Improvement of the Pharmacokinetic Profile of Curcumin-Loaded Nanocochleates Using Nano-Lipoidal Technology". in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. SAGAR SENGUPTA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arijit Sau

Signature

Name of Candidate: -Arijit Sau

Roll No: - 18920322015

Date: 05/06/24

Place: - Durgapur.



I

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of the Pharmacokinetic Profile of Curcumin-Loaded Nanocochleates Using Nano-Lipoidal Technology" by Arijit Sau in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABULKALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.

Signature (Handwritten)

Signature of Guide Name of

Guide: Mr. Sagar Sengupta

Place: Durgapur

Date: *5/6/24*

Associate Professor
Dr. B. C. Roy College of Pharmacy and AHS
Durgapur-713206

Signature (Handwritten)

PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Place: Durgapur

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

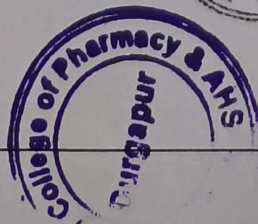
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Signature (Handwritten)

Signature of the External Examiner

Place:

Date:



II

Signature (Handwritten)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A
Project report on

**IMPROVEMENT OF THE PHARMACOKINETIC PROFILE OF
CURCUMIN LOADED NANOCOCHLEATES USING NANO-
LIPOIDAL TECHNOLOGY**

*Submitted by
Arijit Sau*

*University Regn. No. – 221892310029(2022-23)
Roll No. – 18920322015*

Under the guidance of
Mr. SAGAR SENGUPTA
Associate Professor, BCRCP

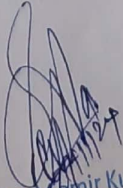
Submitted to
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutics

**Maulana Abul Kalam Azad University of
Technology West Bengal**

**Dr. B.C. Roy College of Pharmacy and Allied Health
Sciences Durgapur 713206**

Academic Year: 2023-2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Improvement of the Pharmacokinetic Profile of Curcumin-Loaded Nanocochleates Using Nano-Lipoidal Technology", in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Mr. SAGAR SENGUPTA.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arijit Sau

Signature

Name of Candidate: -Arijit Sau

Roll No: - 18920322015

Date: 05/06/24

Place: - Durgapur.



I

[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Improvement of the Pharmacokinetic Profile of Curcumin-Loaded Nanocochleates Using Nano-Lipoidal Technology" by Arijit Sau in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICS) under MAULANA ABULKALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.

Signature (Handwritten)

Signature of Guide Name of

Guide: Mr. Sagar Sengupta

Place: Durgapur

Date: *5/6/24*

Associate Professor
Dr. B. C. Roy College of Pharmacy and AHS
Durgapur-713206

Signature (Handwritten)

PROF. SAMIR KUMAR SAMANTA
(PRINCIPAL)

Place: Durgapur

Date:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

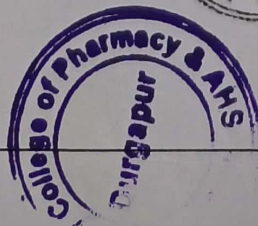
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Signature (Handwritten)

Signature of the External Examiner

Place:

Date:



II

Signature (Handwritten)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on



Evaluation of Anti-Ulcer Activity of *Barleria lupulina* Leaves

Submitted by

ARINDAM SAHOO

University Regn. No. – 221892310039 OF 2022-23

Roll No. - 18920222007

Under the guidance of

PROF. SAMIR KUMAR SAMANTA

PRINCIPAL of

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

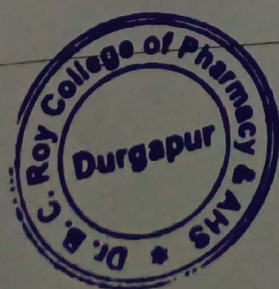
In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmacology

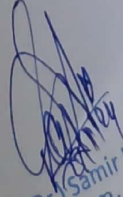
Submitted to

**Maulana Abul Kalam Azad University of
Technology, West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur, 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I am hereby declared that the Project entitled "Evaluation of Anti-Ulcer Activity of *Barleria lupulina* Leaves" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of PROF. SAMIR KUMARSAMANTA

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arindam Sahoo

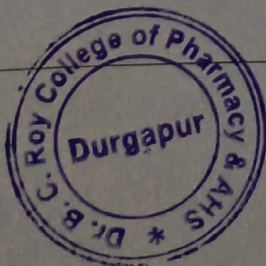
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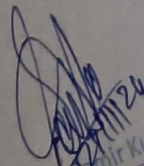
Name of Candidate: Arindam Sahoo

Roll No: 18920222007

Date: 06/06/2024

Place : Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Evaluation of Anti-Ulcer Activity of *Barleria lupulina* Leaves" by Arindam Sahoo in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither his thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Signature of Guide

Name of Guide:

Date:

Place:

PROF (DR.) SAMIR KR. SAMANTA
(PRINCIPAL)

Date:

Place:

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

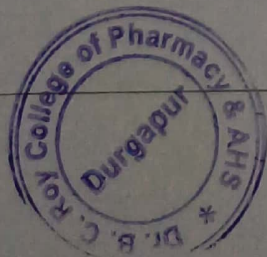
07/6/24

Signature

Name of External Examiner:

Date:

Place:


Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A
Project Report on

“Synthesis and characterization of different amino acid derivatives to be evaluated against non-alcoholic fatty liver disease”.

Submitted by

Arup Koley

University Regn. No. -221892310011

Roll No. -18920722002

Under the guidance of
Dr. Amit Kumar Halder
Associate Professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis

Submitted to
**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2023 - 2024



*Prof. (Dr.) Sanjit Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal 713206*



DECLARATION

I hereby declare that the Project entitled "Synthesis and characterization of different amino acid derivatives to be evaluated against non-alcoholic fatty liver disease". in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Amit Kumar Halder**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Arup Koley

Signature

Name of Candidate: - Arup Koley

Roll No: -18920722002

Date: -05.06.2024

Place: - Durgapur



[Signature]
Prof. (Dr.) Saman Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Synthesis and characterization of different amino acid derivatives to be evaluated against non-alcoholic fatty liver disease" by Arup Koley in partial fulfilment for the MASTER OF PHARMACY (PHARMACEUTICAL ANALYSIS) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Amit Kumar Halder

DR. AMIT KUMAR HALDER
ASSOCIATE PROFESSOR
DR. B. C. ROY COLLEGE
OF PHARMACY AND A.H.S.
DURGAPUR-713206

Signature of Guide

Name of Guide: Dr. Amit Kumar Halder

Date: 04.06.2024

Place: Durgapur

[Signature]

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Date: 04.06.2024

Place: Durgapur

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

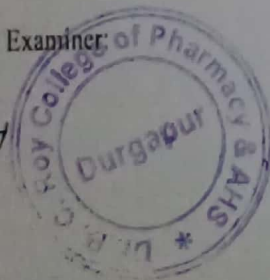


[Signature]
Signature

Name of External Examiner:

Date: 05/06/24

Place: Durgapur



[Signature]
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report On

**Immobilization of Plastic Degrading Microorganism on
Polymeric Nanoparticle for Efficient Plastic Degradation and
Virulence Study of Microorganism on Animal Model**

Submitted by

AYAN MAHATA

University Reg No.- 221892310040 of 2022-2023

Roll No.- 18920222012

Under The Guidance of

Dr. Abhik Si

Associate Professor

Department of Pharmacology

In partial fulfilment of the Requirement for the Degree of

Master of Pharmacy in Pharmacology

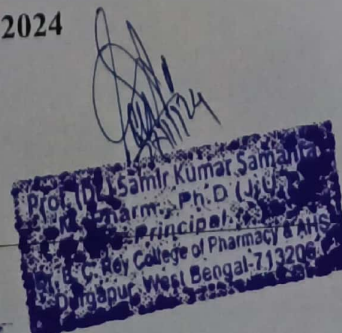
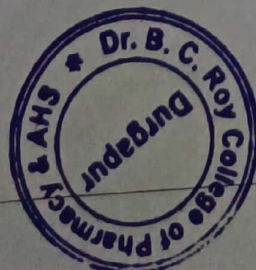
Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 – 2024



DECLARATION

I hereby declare that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Virulence Study of Microorganism on Animal Model" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bonafide work carried out by me under the guidance of Dr. Abhik Si

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Ayan Mahata

Signature

Name of Candidate: AYAN MAHATA

Roll No: 18920222012

Date: 06/06/2024

Place: BCRCP, Durgapur



CERTIFICATE

This is to certify that the Project entitled "Immobilization of Plastic Degrading Microorganism on Polymeric Nanoparticle for Efficient Plastic Degradation and Virulence Study of Microorganism on Animal Model" by Ayan Mahata in partial fulfilment for the MASTER OF PHARMACY (PHARMACOLOGY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Abhik

Signature of Guide

Name of Guide: Dr. Abhik S.

Date: 06.06.2024.

Place: BCRC, Durgapur.

Samir

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)

Date:

Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:

Samir
08/6/24

Signature

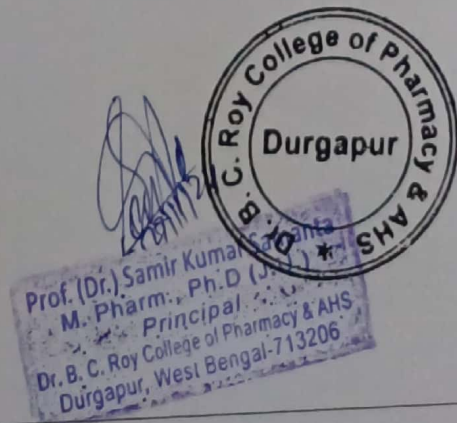
Name of External Examiner:

Date:

Place:



II





A

Project Report on

**Design, Synthesis and Characterization of
Different Coumarin Derivatives to be evaluated
against Breast Cancer**

Submitted by

CHANCHAL MONDAL

University Regn. No. -221892310012

Roll No. -18920722009

Under the guidance of

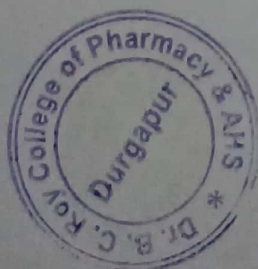
Dr. Amit Kumar Halder

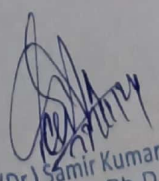
Associate professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Design, Synthesis and characterization of different coumarin derivatives to be evaluated against Breast Cancer" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Amit Kumar Halder.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution

Chanchal Mondal

Signature


Name of Candidate: Chanchal Mondal

Roll No: 18920722009

Date: 03/06/2024

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

CERTIFICATE

This is to certify that the Project entitled "Design, Synthesis and characterization of different coumarin derivatives to be evaluated against Breast Cancer" by Chanchal Mondal in partial fulfilment for the MASTER OF PHARMACY IN PHARMACEUTICALS ANALYSIS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment

Amit Kumar Halde
Signature of Guide

Shruti Jyoti Sen
Signature of the External Examiner

Name of Guide: DR. AMIT KUMAR HALDE
ASSOCIATE PROFESSOR
DR. B. C. ROY COLLEGE
OF PHARMACY AND A.H.S.
DURGAPUR-713206

Place: Durgapur

Date: 05.06.2024

DR. AMIT KUMAR HALDER

Place: Durgapur

Date: 03.06.2024

Prof. (Dr.) Samir Kr. Samanta

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Date: 03-06-24

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



A

Project Report on

**Design, Synthesis and Characterization of
Different Coumarin Derivatives to be evaluated
against Breast Cancer**

Submitted by

CHANCHAL MONDAL

University Regn. No. -221892310012

Roll No. -18920722009

Under the guidance of

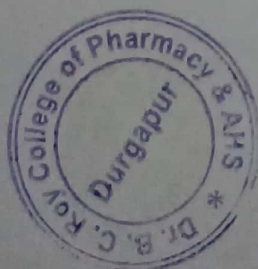
Dr. Amit Kumar Halder

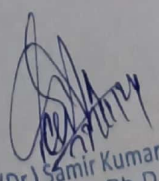
Associate professor

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Pharmaceutical Analysis
Maulana Abul Kalam Azad University of Technology
West Bengal

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206

Academic Year: 2023 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Design, Synthesis and characterization of different coumarin derivatives to be evaluated against Breast Cancer" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Amit Kumar Halder.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution

Chanchal Mondal

Signature


Name of Candidate: Chanchal Mondal

Roll No: 18920722009

Date: 03/06/2024

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



CERTIFICATE

This is to certify that the Project entitled "Design, Synthesis and characterization of different coumarin derivatives to be evaluated against Breast Cancer" by Chanchal Mondal in partial fulfilment for the MASTER OF PHARMACY IN PHARMACEUTICALS ANALYSIS under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment

Amit Kumar Halde
Signature of Guide

Shruti Jyoti Sen
Signature of the External Examiner

Name of Guide: DR. AMIT KUMAR HALDE
ASSOCIATE PROFESSOR
DR. B. C. ROY COLLEGE
OF PHARMACY AND A.H.S.
DURGAPUR-713206

Place: Durgapur

Date: 05.06.2024

DR. AMIT KUMAR HALDER

Place: Durgapur

Date: 03.06.2024

Prof. (Dr.) Samir Kr. Samanta

PROF (DR.) SAMIR KR. SAMANTA

(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Date: 03-06-24

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place: Durgapur



Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Development and evaluation of Itraconazole loaded microemulsion gel formulation



A

Project Report on



**DEVELOPMENT AND EVALUATION OF
ITRACONAZOLE LOADED MICROEMULSION
GEL FORMULATION**

Submitted by

DIBYENDU KUNDU

University Regn. No. -221892310002

Roll No. - 18921822003

In partial fulfilment of the Requirement for the Degree of
Master of Pharmacy in Industrial Pharmacy

Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

Under the guidance of

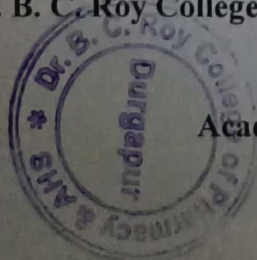
Dr. FALGUNI PATRA

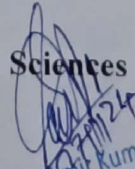
Associate professor, Pharmaceutics

Dr. B. C. Roy College of Pharmacy and Allied Health Sciences

Durgapur 713206

Academic Year: 2023 - 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

DECLARATION

I hereby declare that the Project entitled "Development and evaluation of Itraconazole loaded microemulsion gel formulation" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to MaulanaAbulKalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Dr. Falguni Patra.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Dibyendu Kundu
Signature

Name of Candidate: DIBYENDU KUNDU

Roll No: 18921822003

Date: 05.06.2024

Place: Durgapur



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Development and evaluation of Itraconazole loaded microemulsion gel formulation

CERTIFICATE:

This is to certify that the Project entitled "Development and evaluation of Itraconazole loaded microemulsion gel formulation" by Dibyendu Kundu in partial fulfillment for the MASTER OF PHARMACY (INDUSTRIAL PHARMACY) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

[Handwritten Signature]
6/5/24

Signature of Guide

Name of Guide: DR. FALGUNI PATRA

Place: Durgapur

Date: 05/06/2024

[Handwritten Signature]
6/24

PROP. SAMIR KUMAR

SAMANTA

(PRINCIPAL) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place:

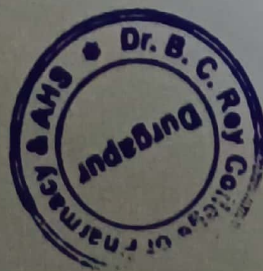
Date:

[Handwritten Signature]
6/6/2024

Signature of the External Examiner

Place:

Date:



[Handwritten Signature]
6/24
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



MAULANA ABUL KALAM AZAD
UNIVERSITY OF TECHNOLOGY,
WEST BENGAL



A Project report on
**Force Degradation Study of Quetiapine and its
marketed tablet by Analytical and Chemical
Characterizations**

Submitted by

Dipanwita Bera

University Regn. No.- 221892310014

Roll No.- 18920722007

Under the guidance of

Dr. Souvik Basak

Professor

M. Pharm, Ph.D.

In partial fulfillment
Of the requirement for award of the degree of
Master of Pharmacy in Pharmaceutical Analysis


Submitted to

**Maulana Abul Kalam Azad University of Technology
West Bengal**

**Dr. B. C. Roy College of Pharmacy and Allied Health Sciences
Durgapur 713206**

Academic Year: 2022 – 2024




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206



DECLARATION

I hereby declare that the Project entitled "Force Degradation Study of Quetiapine and its marketed tablet by Analytical and Chemical Characterizations" in partial fulfilment of the requirement for the award of Master of Pharmacy submitted to **Maulana Abul Kalam Azad University of Technology, West Bengal**, is an authentic record of bona fide work carried out by me under the guidance of **Dr. Souvik Basak**.

The matter embodied in this Project has not been submitted for the award of any other degree or diploma to any University / Institution.

Dipanswita Bera
Signature


Name of Candidate: Dipanswita Bera

Roll No.- 18920722007

Date: 8/6/24

Place: Durgapur




Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal - 713206

CERTIFICATE

This is to certify that the Project entitled "Force Degradation Study of Quetiapine and its marketed tablet by Analytical and Chemical Characterizations" by Dipanwita Bera in partial fulfilment for the MASTER OF PHARMACY (Pharmaceutical Analysis) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY for assessment.

Souvik Basak
31/6/24

Signature of Guide

Name of Guide: Dr. Souvik Basak

Place: Durgapur
Date:

Shanto Mukherjee

Signature of the External

Examiner

Place: Durgapur
Date: 5/6/24

Samir Kumar Samanta

PROF. SAMIR KUMAR SAMANTA

(PRINCIPAL)

Prof. (Dr.) Samir Kumar Samanta
M. Pharm. Ph.D (J.U.)
Principal

Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Place: Durgapur

Date: 4/6/24



Samir Kumar Samanta
Prof. (Dr.) Samir Kumar Samanta
M. Pharm., Ph.D (J.U.)
Principal
Dr. B. C. Roy College of Pharmacy & AHS
Durgapur, West Bengal-713206

Dr. B. C. Roy College of Pharmacy & AHS